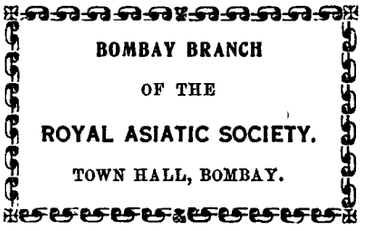
Vaccination in the Bombay Presy.
report
1889-90 to 1901-02

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# REPORT

ON

# VACCINATION

IN THE

# BOMBAY PRESIDENCY,

FOR THE YEAR

1889-90.

133635

Bombay:
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1890.

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# VACCINATION REPORT FOR THE YEAR 1889-90.

Vaccination Report.

The Government of India, in Resolution, Home Department (Public), No. 28—1579—95, dated 15th July 1887, embodied in Bombay Government Resolution in the General Department No. 2426, dated 17th August 1887, in paragraph 5, ruled that the report on vaccination should be submitted in full every third year from 1887 onwards, and Government Resolution in the General Department, No. 4357, dated 19th October 1889, directed that the annual Vaccination Report should be separately submitted. In accordance with these instructions the report on vaccination for the year 1889-90 is prepared in full and submitted separately.

Changes amongst the Supervising Officers.

2. The changes amongst the supervising officers during 1889-90 (1st April 1889 to 31st March 1890) were as follow :—

(*a*) In the Western Gujarát Circle, Surgeon W. H. Quicke was acting Superintendent of Vaccination from the beginning of the year till the 5th of May 1889, when Government abolished the appointment and Dr. M. B. Colah was placed in charge of the Superintendent of Vaccination's office, in addition to his own duties of Deputy Sanitary Commissioner, Eastern Gujarát Registration District, from 6th May 1889 (*vide* Government Resolution No. 1634, dated 27th April 1889).

(*b*) In the Sind Registration District, Surgeon-Major G. Bainbridge, the Civil Surgeon of Karáchi, was in charge of the office of the Deputy Sanitary Commissioner during the absence of Surgeon J. C. H. Peacocke on privilege leave from 13th July to 29th September 1889 inclusive.

Strength of the Department.

3. The subjoined table shows in detail the strength of the Department during the year 1889-90 :—

| No. | Districts and Circles. | Area in Square Miles. | Population according to Census of 1881. | Number of Vaccinators. | | | | | | | | | | | Number of Peons. | | | | | Total Strength. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Deputy Sanitary Commissioners. | Superintendents of Vaccination. | Inspectors of Sanitation and Vaccination. | Assistant Superintendents of Vaccination. | Clerks and Kárkúns. | Government. Civil. | Government. Military. | Municipal. | Cantonment. | Local Fund. Vaccinators. | Local Fund. Candidates. | Native States. | Total. | Government. | Municipal. | Local Funds. | Cantonment. | Native States. | Total. | |
| 1 | Western Registration District ... | 26,321·6 | 3,493,821 | 1 | ... | 6 | ... | 2 | ... | ... | 8 | 1 | 60 | 4 | 4 | 77 | 10 | 5 | 61 | ... | 3 | 79 | 165 |
| 2 | Presidency Circle ... ... ... | 22 | 773,196 | ... | 1 | ... | 1 | 17 | ... | ... | 9 | ... | ... | ... | ... | 9 | ... | 3 | ... | ... | ... | 3 | 31 |
| 3 | Central Registration District ... | 29,273·1 | 4,803,216 | 1 | ... | 6 | .. | 2 | ... | ... | 8 | 1 | 72 | 6 | 10 | 97 | 10 | 7 | 72 | 1 | 10 | 100 | 206 |
| 4 | Southern Registration District ... | 25,369·4 | 4,137,679 | 1 | ... | 6 | 1 | 2 | ... | ... | 9 | ... | 60 | 6 | 32 | 107 | 8 | 6 | 60 | ... | 32 | 106 | 223 |
| 5 | Eastern Gujarát Regisiration District ... ... ... ... ... | 27,712·1 | 4,162,314 | 1 | ... | 5 | ... | 2 | ... | ... | 7 | ... | 42 | 5 | 25 | 79 | 9 | 7 | 42 | ... | 25 | 83 | 170 |
| 6 | Western Gujarát Circle ... ... | 27,256·5 | 2,920,377 | ... | ... | ... | 3 | 2 | 2 | ... | ... | ... | ... | 5 | 43 | 50 | ... | ... | ... | ... | 52 | 52 | 107 |
| 7 | Sind Registration District ... ... | 54,123·0 | 2,542,976 | 1 | 1 | 6 | ... | 5 | ... | ... | 9 | ... | 50 | 5 | 3 | 67 | 10 | 5 | 50 | ... | 3 | 68 | 148 |
| 8 | Baroda Circle ... ... ... ... | 8,570 | 2,185,005 | ... | ... | 4 | ... | ... | ... | ... | ... | ... | ... | 8 | 36 | 44 | ... | ... | ... | ... | 40 | 40 | 88 |
| 9 | Cutch Circle ... ... ... ... | 6,500 | 512,084 | ... | 1 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | 17 | 17 | ... | ... | ... | ... | 19 | 19 | 38 |
| 10 | Aden ... ... ... ... ... | 11·6 | 34,860 | ... | ... | ... | ... | ... | ... | ... | 2 | ... | ... | ... | ... | 2 | ... | 1 | ... | ... | ... | 1 | 3 |
| | Military Stations ... ... ... | ..... | ..... | ... | ... | ... | ... | ... | ... | 3 | ... | ... | ... | ... | ... | 3 | ... | ... | ... | ... | ... | ... | 3 |
| | Total 1889-90 ... | 205,159·3 | 25,615,528 | 5 | 3 | 33 | 6 | 32 | 2 | 3 | 52 | 2 | 284 | 39 | 170 | 552 | 47 | 34 | 285 | 1 | 184 | 551 | 1,182 |
| | „ 1888-89 ... | | | 5 | 4 | 32 | 6 | 29 | 2 | 3 | 50 | 2 | 280 | 37 | 163 | 534 | Not available. | | | 1 | ... | 535 | 1,145 |

Increase or decrease in strength as compared with that in 1888-89.

4. The appointment of Superintendent of Vaccination, Western Gujarát Circle, remains vacant. One additional Inspector of Sanitation and Vaccination was entertained by the Baroda State. Three vaccination kárkúns, who are included in the above table, were entertained by the Karáchi Municipality as a temporary measure to assist during an outbreak of small-pox. Two municipal vaccinators, one for Bándra in Thána and one in Bijápur town, were entertained. In Local Fund Establishments there is an increase of 4 vaccinators,

one for each of the following collectorates :—Belgaum, Dhárwár, Bijápur and Kánara in the Southern Registration District, and of 2 candidates for Khándesh in the Western Registration District. In Native States, there was one additional vaccinator entertained for Mewás State, one by the Southern Marátha Jághírs and 5 by the Baroda State. In peons there is an increase of 16.

Work amongst the Civil and Military population.

5. The following table contrasts the work amongst the civil and military population during the year under report with that for 1888-89 :—

| Establishment. | Persons primarily vaccinated. | | | | Persons re-vaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1888-89. | 1889-90. | Increase. | Decrease. | 1888-89. | 1889-90. | Increase. | Decrease. | 1888-89. | 1889-90. | Increase. | Decrease. |
| *In Civil Life.* | | | | | | | | | | | | |
| inerant ... ... | 885,719 | 891,040 | 5,321<br>0·61 | ... | 48,271 | 54,574 | 6,303<br>1,306 | ... | 933,990 | 945,614 | 11,624<br>1·24 | ... |
| ispensary ... ... | 6,703 | 5,479 | ... | 1,224<br>18·26 | 374 | 380 | 6<br>1·60 | ... | 7,077 | 5,859 | ... | 1,218<br>17·21 |
| Total ... | 892,422 | 896,519 | 4,097<br>0·46 | ... | 48,645 | 54,954 | 6,309<br>12·97 | ... | 941,067 | 951,473 | 10,406<br>1·16 | ... |
| *In Army Life.* | | | | | | | | | | | | |
| ative Army ... | 3,594 | 3,521 | ... | 73<br>2·03 | 4,604 | 2,826 | ... | 1,778<br>38·62 | 8,198 | 6,347 | ..... | 1,851<br>22·58 |
| ritish Army ... | 378 | 192 | ... | 186<br>49·21 | 1,451 | 690 | ... | 761<br>52·45 | 1,829 | 882 | ..... | 947<br>51·78 |
| Total ... | 3,972 | 3,713 | ... | 259<br>6·52 | 6,055 | 3,516 | ... | 2,539<br>41·93 | 10,027 | 7,229 | ..... | 2,798<br>27·90 |
| otal for the whole Presidency ... | 896,394 | 900,232 | 3,838<br>0·43 | .. | 54,700 | 58,470 | 3,770<br>6·89 | ... | 951,094 | 958,702 | 7,608<br>0·80 | ... |

It will be seen that there were 900,232 persons primarily vaccinated and 58,470 re-vaccinated against 896,394 and 54,700 last year, showing a net increase of 3,838 or 0·43 per cent. in primary vaccination and 3,770 or 6·89 per cent. in re-vaccination. The rate of decrease in primary and re-vaccination in dispensaries was 18·26 per cent. in the former and an increase of 1·60 per cent. in the latter. The decrease of 1,218 or 17·21 under the total operations amongst dispensaries was due to the transfer of vaccination work from the Medical Officers in charge of dispensaries to the táluka vaccinators. There was a decrease in both kinds of operations in the British and Native Army during the year. On the whole there has been in total operations an increase of 7,608 or 0·80 per cent. over the preceding year for the entire Presidency.

Infants successfully vaccinated in the 24 Collectorates.

6. The following table shows the number of infants successfully vaccinated during the year under review in the Presidency *exclusive of Native States*. The birth and death statistics are taken for the calendar year, as usual, in calculating the number available for vaccination, because infants are generally not vaccinated until three months after birth :—

| No. | Collectorates. | Births returned as having been registered. | Deaths registered among children under 1 year. | Children available for vaccination. | Children vaccinated successfully. | | Children remained to be vaccinated under 1 year. |
|---|---|---|---|---|---|---|---|
| | | | | | Those under 1 year. | Those between 1 and 6 years. | |
| 1 | Khándesh ... | 52,391 | 10,223 | 42,168 | 28,146 | 10,084 | 14,022 |
| 2 | Násik ... | 30,448 | 6,795 | 23,653 | 14,803 | 5,850 | 8,850 |
| 3 | Thána ... | 23,795 | 3,191 | 20,604 | 12,087 | 10,784 | 8,517 |
| 4 | Bombay City ... | 15,240 | 6,527 | 8,713 | 14,179 | 2,933 | ... |
| 5 | Kolába ... | 14,748 | 1,869 | 12,879 | 10,768 | 2,117 | 2,111 |
| 6 | Ahmednagar ... | 33,364 | 7,205 | 26,159 | 24,339 | 4,005 | 1,820 |
| 7 | Poona ... | 33,031 | 5,728 | 27,303 | 21,138 | 9,403 | 6,165 |
| 8 | Sholápur ... | 27,741 | 4,893 | 22,848 | 19,537 | 4,208 | 3,311 |
| 9 | Sátára ... | 45,521 | 6,863 | 38,658 | 31,694 | 7,690 | 6,964 |
| 10 | Ratnágiri ... | 28,349 | 2,418 | 25,931 | 20,909 | 11,518 | 5,022 |
| 11 | Belgaum ... | 37,837 | 4,867 | 32,970 | 20,382 | 13,867 | 12,588 |

| No. | Collectorates. | Births returned as having been registered. | Deaths registered among children under 1 year. | Children available for vaccination. | Children vaccinated successfully. | | Children remained to be vaccinated under 1 year. |
|---|---|---|---|---|---|---|---|
| | | | | | Those under 1 year. | Those between 1 and 6 years. | |
| 12 | Dhárwár ... | 42,790 | 7,317 | 35,473 | 19,888 | 9,381 | 15,585 |
| 13 | Bijápur ... | 32,266 | 4,272 | 27,994 | 17,681 | 12,815 | 10,313 |
| 14 | Kánara ... | 13,667 | 2,610 | 11,057 | 4,171 | 7,670 | 6,886 |
| 15 | Surat ... | 21,792 | 3,865 | 17,927 | 13,721 | 4,939 | 4,206 |
| 16 | Broach ... | 12,316 | 2,884 | 9,432 | 9,646 | 2,067 | ... |
| 17 | Kaira ... | 29,153 | 5,265 | 23,888 | 20,249 | 5,531 | 3,639 |
| 18 | Panch Mahálś... | 9,087 | 1,059 | 8,028 | 7,062 | 2,418 | 966 |
| 19 | Ahmedabad ... | 29,865 | 5,821 | 24,044 | 23,583 | 3,563 | 461 |
| 20 | Karáchi ... | 13,915 | 3,494 | 10,421 | 7,990 | 3,779 | 2,431 |
| 21 | Hyderabad ... | 18,921 | 3,233 | 15,688 | 15,261 | 6,441 | 427 |
| 22 | Thar and Párkar | 4,578 | 831 | 3,747 | 4,707 | 4,106 | ... |
| 23 | Shikárpur ... | 26,569 | 5,929 | 20,640 | 25,342 | 2,852 | ... |
| 24 | Upper Sind Frontier ... | 3,105 | 565 | 2,540 | 4,228 | 995 | ... |
| | Total. { 1889-90. | 600,489 | 107,724 | 492,765 | 391,511 | 149,016 | 101,254 |
| | Total. { 1888-89. | 634,693 | 99,792 | 534,901 | 386,308 | 148,353 | 148,593 |

From the foregoing table it will be observed that in 19 districts out of 24 the successfully vaccinated fell short of the total registered births *minus* deaths amongst those under 1 year old, and in the remaining 5 districts the successful operations outnumbered the available children. These five districts stand in the following sequence: Bombay city (5,466), Shikárpur (4,702), Upper Sind Frontier (1,633), Thar and Párkar (960) and Broach (214). On the whole out of 492,765 infants available for vaccination under 1 year, 391,511 or 79·45 per cent. have been protected and 101,254 or 20·55 per cent. remained unprotected.

Primary vaccination.

7. The next table shows the number of persons primarily vaccinated, as also the increase or decrease for each of the last ten years:—

| Primarily vaccinated. | Year ending 31st March. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1880. | 1881. | 1882. | 1883. | 1884. | 1885. | 1886. | 1887. | 1888. | 1889. | 1890. |
| Persons ... | 586,501 | 642,505 | 729,323 | 792,206 | 826,965 | 802,207 | 854,387 | 855,972 | 879,755 | 896,394 | 900,232 |
| Increase ... | 24,532 | 56,004 | 86,818 | 62,883 | 34,759 | ... | 52,180 | 1,585 | 23,783 | 16,639 | 3,838 |
| Decrease... | ... | ... | ... | ... | ... | 24,758 | ... | ... | ... | ... | ... |

The above will show at a glance that from 1880 every year, except 1885, is characterized by progress in primary vaccination.

Results in primary vaccinations.

8. Out of 900,232 persons primarily vaccinated, 854,182 cases or 94·88 per cent. were successful, being 0·14 per cent. less than in 1888-89. The number of unsuccessful cases was less than that in the preceding year, being 15,241 against 16,357; 2,012 persons were operated on a second time on account of the failure of the first operation and in 32,821 cases the result was unknown, as the children were not again brought for inspection. The following table shows the number of persons primarily vaccinated, and the success among them for the past ten years:—

| | Years ending 31st March. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1881. | 1882. | 1883. | 1884. | 1885. | 1886. | 1887. | 1888. | 1889. | 1890. |
| Number of persons primarily vaccinated ... ... ... | 642,505 | 729,323 | 792,206 | 826,965 | 802,207 | 854,387 | 855,972 | 879,755 | 896,394 | 900,232 |
| Do. successfully... | 616,513 | 703,923 | 761,745 | 791,323 | 764,445 | 818,135 | 817,330 | 839,263 | 851,718 | 854,182 |
| Percentage of success. | 95·95 | 96·52 | 96·15 | 95·69 | 95·29 | 95·76 | 95·49 | 95·40 | 95·02 | 94·88 |

Re-vaccination.

9. The number of persons re-vaccinated and the success among them for the last ten years are given below :—

| | Years ending 31st March. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1881. | 1882. | 1883. | 1884. | 1885. | 1886. | 1887. | 1888. | 1889. | 1890. |
| Number of persons re-vaccinated ... | 62,479 | 56,769 | 66,505 | 56,874 | 63,361 | 53,403 | 47,938 | 49,790 | 54,700 | 58,470 |
| Ditto successfully . | 45,481 | 40,675 | 46,420 | 37,657 | 41,255 | 36,191 | 30,945 | 32,443 | 33,541 | 36,346 |
| Percentage of success. | 72·79 | 71·65 | 69·80 | 66·21 | 65·11 | 67·77 | 64·55 | 65·16 | 61·32 | 62·16 |

During the year 58,470 persons were re-vaccinated against 54,700 for 1888-89. In 232 instances the re-vaccination was repeated, in 11,030 instances the results could not be ascertained, and in 11,326 the operation failed. The number of successful cases was 36,346 or 62·16 per cent. against 61·32 in the preceding year.

Total operations.

10. The subjoined table shows the total number of persons primarily vaccinated and re-vaccinated taken together, as also the number of successful cases during each of the last ten years :—

| | Years ending 31st March. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1881. | 1882. | 1883. | 1884. | 1885. | 1886. | 1887. | 1888. | 1889. | 1890. |
| Persons operated on . | 704,984 | 786,092 | 858,711 | 883,839 | 865,568 | 907,790 | 903,910 | 929,545 | 951,094 | 958,702 |
| Do. successfully... | 661,994 | 744,598 | 808,165 | 828,980 | 805,700 | 854,326 | 848,331 | 871,706 | 885,259 | 890,528 |
| Percentage of success. | 93·90 | 94·72 | 94·11 | 93·79 | 93·08 | 94·11 | 93·85 | 93·78 | 93·08 | 92·89 |

It will be seen that the total number of persons operated on were 958,702 and of these 890,528 or 92·89 per cent. were successful. In 1888-89 the percentage was 93·08. There were 2,244 persons operated on more than once, the unsuccessful numbered 26,567 and the unknown cases were 43,851. The details of the total number of persons operated on for the last two years by districts and circles of vaccination together with the percentages of increase and decrease are shown in the following table :—

| Districts and Circles. | Persons primarily vaccinated. | | | | Persons re-vaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1888-89. | 1889-90. | Increase. | Decrease. | 1888-89. | 1889-90. | Increase. | Decrease. | 1888-89. | 1889-90. | Increase. | Decrease. |
| Western Registration District. | 106,944 | 105,226 | ... | 4,718 / 4·41 | 3,934 | 2,364 | ... | 1,570 / 39·91 | 110,878 | 107,590 | ... | 3,289 / 29·65 |
| Presidency Circle ... ... | 19,044 | 19,637 | 593 / 3·11 | ... | 2,800 | 3,876 | 1,076 / 38·43 | ... | 21,844 | 23,513 | 1,669 / 7·64 | ... |
| Central Registration District... | 182,730 | 181,865 | ... | 865 / 0·47 | 5,630 | 3,787 | ... | 1,843 / 32·74 | 188,360 | 185,652 | ... | 2,708 / 1·44 |
| Southern Registration District. | 150,550 | 171,189 | 20,639 / 13·71 | ... | 10,586 | 24,351 | 13,765 / 130·03 | ... | 161,136 | 195,540 | 34,404 / 21·35 | ... |
| Eastern Gujarát Registration District. | 143,221 | 138,568 | ... | 4,653 / 3·25 | 2,164 | 4,249 | 2,085 / 96·35 | ... | 145,385 | 142,817 | ... | 2,568 / 1·72 |
| Western Gujarát Circle ... | 105,138 | 102,339 | ... | 2,799 / 2·66 | 5,757 | 3,728 | ... | 2,029 / 35·24 | 110,895 | 106,067 | ... | 4,828 / 4·35 |
| Sind Registration District ... | 89,920 | 84,395 | ... | 5,525 / 6·14 | 16,118 | 11,295 | ... | 4,823 / 29·72 | 106,038 | 95,690 | ... | 10,348 / 9·76 |
| Baroda ... ... ... ... | 70,939 | 69,246 | ... | 1,687 / 2·38 | 1,340 | 1,016 | ... | 324 / 24·18 | 72,273 | 70,262 | ... | 2,011 / 2·78 |
| Cutch ... ... ... ... | 21,125 | 21,478 | 353 / 1·67 | ... | 304 | 258 | ... | 46 / 15·13 | 21,429 | 21,736 | 307 / 1·43 | ... |
| Aden, Muskat, Khelat, Bushire, Steamer Point and Shaikh Othman. | 2,817 | 2,576 | .. | 241 / 8·56 | 12 | 30 | 18 / 150·00 | ... | 2,829 | 2,606 | ... | 223 / 7·88 |
| British Army ... ... ... | 378 | 192 | ... | 186 / 49·21 | 1,451 | 690 | ... | 761 / 52·45 | 1,829 | 882 | ... | 947 / 51·78 |
| Native Army ... ... ... | 3,594 | 3,521 | ... | 73 / 2·03 | 4,604 | 2,826 | ... | 1,778 / 38·62 | 8,198 | 6,347 | .... | 1,851 / 22·58 |
| Total ... | 896,394 | 900,232 | 3,838 / 0·43 | ... | 54,700 | 58,470 | 3,770 / 6·89 | ... | 951,094 | 958,702 | 7,608 / 0·80 | ... |

Increase and decrease in primary vaccination.

11. In primary vaccination a considerable increase is shown in the Southern Registration District—20,639 persons were vaccinated more than the previous year, the percentage of increase being 13·71. In the Presidency and Cutch Circles there was a slight increase, but in all other districts and circles there was more or less decrease. The net increase over the preceding year was 3,838 or 0·43 per cent.

Increase and decrease in re-vaccination.

12. In re-vaccination also an increase took place in the Southern Registration District—24,351 or 13,765 more than in the preceding year. Next comes Eastern Gujarát, where an increase of 2,085 was recorded under this head. The net increase was 3,770 or 6·89 per cent.

Increase and decrease in total operations.

13. As regards total operations, an increase of 34,404 or 21·35 per cent. is recorded in the Southern Registration District. The Presidency and Cutch Circles show an increase of 1,669 or 7·64 per cent., and 307 or 1·43 per cent., respectively. A decrease of 28,772 is distributed over the Western, Central, Eastern and Western Gujarát, Sind, Baroda, Aden, Muskat, Khelat, Bushire, as well as British and Native Army. The total net increase for the Presidency was 7,608 or 0·80 per cent.

Causes of decrease.

14. In the Western Registration District the decrease under primary vaccination is due to sickness among the vaccinators, and as regards re-vaccination, it is probable that small-pox not being so prevalent during the year, re-vaccination was not so much sought for. The decrease in the Central Registration District under primary vaccination is attributed to unvaccinated children becoming less numerous in the Collectorates of Ahmednagar and Sholápur, and also to the fact that the registered births had been much less in all the Collectorates except Sholápur; at the same time the death-rate was much higher this year in every Collectorate than in the previous year. The decrease under re-vaccination is chiefly due to the fact that small-pox was prevalent during 1888-89 and in consequence a much larger number than usual was re-vaccinated that year. In the Western Gujarát Circle the Káthiáwár Agency alone shows an increase in primary vaccination, whereas the Pálanpur Superintendency shows a large decrease. This decrease is ascribed to very little work having been done by two vaccinators, one of whom was dismissed, and the other resigned. In Sind the decrease is said to be due chiefly to floods in the Karáchi, Hyderabad and Shikárpur Collectorates, and scarcity of rain and famine in the Thar and Párkar District. The Chief Medical Officer, Baroda, states that the chief cause of decrease in all the divisions of that State is the want of subjects.

Particulars of vaccine operations.

15. The following table specifies, by districts and circles, caste, age, sex and result in primary vaccination, and sex and result in re-vaccination and total operations; and their totals are contrasted with those in 1888-89. It will be observed that there is an improvement in infantile vaccination over that of last year as regards numbers as well as percentages :—

| Districts and Circles. | Persons primarily vaccinated. Caste. Christians. | Hindus. | Muslimáns. | Pársis. | Other Castes. | Age. N. = Number. S. = Successful. Under 1 year. | Between 1 and 6 years. | All other ages. | Total Number of Persons operated on. P. = Primary Vaccinations. R. = Re-vaccinations. Sex. Males. | Females. | Total. | Results. Successful. | Unsuccessful. | Unknown. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Western Registration District. | 731 | 95,398 | 4,992 | 64 | 4,089 | N. 71,978 | 31,652 | 1,596 | P. 53,189 | 52,037 | 105,226 | 100,612 | 1,670 | 3,067 | 105,349 |
| | | | | | | S. 68,902 | 30,255 | 1,455 | R. 1,326 | 1,038 | 2,364 | 1,191 | 896 | 277 | 2,364 |
| | | | | | | | | | 54,515 | 53,075 | 107,590 | 101,803 | 2,566 | 3,344 | 107,713 |
| Presidency Circle. | 1,496 | 10,678 | 4,445 | 1,198 | 1,820 | N. 14,714 | 3,169 | 1,754 | P. 10,189 | 9,448 | 19,637 | 18,004 | 435 | 1,287 | 19,726 |
| | | | | | | S. 14,179 | 2,933 | 892 | R. 3,112 | 764 | 3,876 | 701 | 138 | 3,037 | 3,876 |
| | | | | | | | | | 13,301 | 10,212 | 23,513 | 18,705 | 573 | 4,324 | 23,602 |
| Central Registration District. | 858 | 143,953 | 9,295 | 89 | 22,670 | N. 136,035 | 44,292 | 1,538 | P. 93,014 | 88,851 | 181,865 | 171,786 | 1,609 | 8,650 | 182,045 |
| | | | | | | S. 128,693 | 41,812 | 1,281 | R. 3,190 | 597 | 3,787 | 2,442 | 785 | 560 | 3,787 |
| | | | | | | | | | 96,204 | 89,448 | 185,652 | 174,228 | 2,394 | 9,210 | 185,832 |
| Southern Registration District. | 928 | 143,457 | 15,245 | 4 | 11,555 | N. 99,617 | 67,573 | 3,999 | P. 86,968 | 84,221 | 171,189 | 161,017 | 2,261 | 8,300 | 171,578 |
| | | | | | | S. 94,187 | 63,380 | 3,450 | R. 18,979 | 5,372 | 24,351 | 16,332 | 3,613 | 4,421 | 24,366 |
| | | | | | | | | | 105,947 | 89,593 | 195,540 | 177,349 | 5,874 | 12,721 | 195,944 |
| Eastern Gujarát Registration District. | 120 | 116,026 | 11,895 | 446 | 10,081 | N. 99,943 | 35,987 | 2,638 | P. 72,235 | 66,333 | 138,568 | 134,844 | 2,333 | 1,796 | 138,973 |
| | | | | | | S. 97,391 | 34,951 | 2,502 | R. 3,086 | 1,163 | 4,249 | 2,666 | 1,155 | 436 | 4,257 |
| | | | | | | | | | 75,321 | 67,496 | 142,817 | 137,510 | 3,488 | 2,232 | 143,230 |
| Western Gujarát Circle. | 9 | 84,964 | 11,608 | 33 | 5,725 | N. 63,766 | 37,792 | 781 | P. 52,273 | 50,066 | 102,339 | 95,451 | 3,460 | 3,650 | 102,571 |
| | | | | | | S. 59,735 | 34,986 | 690 | R. 2,275 | 1,453 | 3,728 | 2,368 | 964 | 399 | 3,731 |
| | | | | | | | | | 54,548 | 51,519 | 106,067 | 97,829 | 4,424 | 4,049 | 106,302 |
| Sind Registration District. | 188 | 13,999 | 62,255 | 68 | 7,894 | N. 62,866 | 20,430 | 1,099 | P. 45,128 | 39,267 | 84,395 | 79,207 | 1,112 | 4,294 | 84,673 |
| | | | | | | S. 59,399 | 18,901 | 967 | R. 5,467 | 5,828 | 11,295 | 7,181 | 2,868 | 1,746 | 11,800 |
| | | | | | | | | | 50,595 | 45,095 | 95,690 | 86,458 | 3,480 | 6,040 | 95,973 |
| Baroda .. .. | 7 | 58,810 | 5,241 | 173 | 5,015 | N. 60,641 | 8,224 | 381 | P. 36,341 | 32,905 | 69,246 | 66,469 | 1,665 | 1,286 | 69,420 |
| | | | | | | S. 58,310 | 7,333 | 326 | R. 829 | 187 | 1,016 | 756 | 177 | 83 | 1,016 |
| | | | | | | | | | 37,170 | 33,092 | 70,262 | 67,225 | 1,842 | 1,369 | 70,436 |
| Cutch .. .. | .. | 16,164 | 5,314 | .. | .. | N. 14,500 | 6,545 | 433 | P. 10,890 | 10,588 | 21,478 | 21,227 | 246 | 65 | 21,538 |
| | | | | | | S. 14,364 | 6,430 | 433 | R. 161 | 97 | 258 | 201 | 57 | ... | 258 |
| | | | | | | | | | 11,051 | 10,685 | 21,736 | 21,428 | 303 | 65 | 21,796 |
| Aden, Muskat, Khelat, &c. | 63 | 89 | 2,331 | 9 | 84 | N. 481 | 662 | 1,433 | P. 1,730 | 846 | 2,576 | 2,151 | 63 | 369 | 2,583 |
| | | | | | | S. 432 | 589 | 1,130 | R. 16 | 14 | 30 | 23 | 3 | 4 | 30 |
| | | | | | | | | | 1,746 | 860 | 2,606 | 2,174 | 66 | 373 | 2,613 |
| British Army .. | 143 | 47 | 2 | .. | .. | N. 170 | 20 | 2 | P. 108 | 84 | 192 | 154 | 38 | 21 | 213 |
| | | | | | | S. 135 | 19 | ... | R. 622 | 68 | 690 | 471 | 331 | 14 | 816 |
| | | | | | | | | | 730 | 152 | 882 | 625 | 369 | 35 | 1,029 |
| Native Army .. | 123 | 2,225 | 1,008 | 57 | 108 | N. 2,468 | 440 | 613 | P. 2,144 | 1,377 | 3,521 | 3,190 | 349 | 36 | 3,575 |
| | | | | | | S. 2,292 | 411 | 487 | R. 2,675 | 151 | 2,826 | 2,009 | 839 | 53 | 2,901 |
| | | | | | | | | | 4,819 | 1,528 | 6,347 | 5,199 | 1,188 | 89 | 6,476 |
| Total for the Bombay Presidency, 1889-90. | 4,666 | 690,801 | 133,631 | 2,141 | 68,993 | N. 627,179 | 256,786 | 16,267 | P. 464,209 | 436,023 | 900,232 | 854,182 | 15,241 | 32,821 | 902,244 |
| | | | | | | S. 598,069 | 242,500 | 13,613 | R. 41,738 | 16,732 | 58,470 | 36,346 | 11,326 | 11,030 | 58,702 |
| | | | | | | | | | 505,947 | 452,755 | 958,702 | 890,528 | 26,567 | 43,851 | 960,946 |
| Do. in 1888-89. | 5,758 | 684,445 | 132,416 | 2,469 | 71,306 | N. 624,747 | 256,506 | 15,141 | P. 462,223 | 434,171 | 896,394 | 851,718 | 16,357 | 30,031 | 898,106 |
| | | | | | | S. 595,996 | 242,688 | 13,034 | R. 37,408 | 17,292 | 54,700 | 33,541 | 13,166 | 8,203 | 54,910 |
| | | | | | | | | | 499,631 | 451,463 | 951,094 | 885,259 | 29,523 | 38,234 | 953,016 |

| Excess of Operations over Persons. | Ratio per 100. | | | | | | | | | | | | | | | Excess of Operations over Persons. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Persons primarily vaccinated. | | | | | | | | Total Number of Persons operated on. | | | Results. | | | | |
| | Caste. | | | | | Age. | | | Sex. | | | | | | | |
| | Christians. | Hindus. | Muslimins. | Pārsis. | Other Castes. | Under 1 year. | Between 1 and 6 years. | All other ages. | Males. | Females. | Total. | Successful. | Unsuccessful. | Unknown. | Total. | |
| 123 | ·70 | 90·66 | 4·74 | ·06 | 3·84 | N. 68·40 | 30·68 | 1·52 | P. 50·55 | 49·45 | 100 | 95·62 | 1·47 | 2·91 | 100·12 | 0·12 |
| .. | | | | | | S. 65·48 | 28·75 | 1·38 | R. 56·09 | 43·91 | 100 | 50·88 | 37·90 | 11·72 | 100· | .. |
| 123 | .. | .. | .. | .. | .. | .... | .. | .. | 50·67 | 49·33 | 100 | 94·62 | 2·27 | 3·11 | 100·11 | 0·11 |
| 89 | 7·62 | 54·38 | 22·63 | 6·10 | 9·27 | N. 74·93 | 6·14 | 8·93 | P. 51·89 | 48·11 | 100 | 91·63 | 1·76 | 6·56 | 100· | 0·45 |
| .. | | | | | | S. 72·21 | 14·94 | 4·54 | R. 80·29 | 19·71 | 100 | 18·09 | 3·56 | 78·35 | 100· | .. |
| 89 | .. | .. | .. | .. | .. | .... | .. | .. | 56·57 | 43·43 | 100 | 79·55 | 2·06 | 18·39 | 100·38 | 0·38 |
| 180 | ·47 | 81·90 | 5·11 | ·05 | 12·47 | N. 74·80 | 24·35 | ·85 | P. 51·14 | 48·86 | 100 | 94·46 | ·78 | 4·76 | 100·10 | 0·10 |
| .. | | | | | | S. 70·76 | 22·99 | ·70 | R. 84·24 | 15·76 | 100 | 64·48 | 20·73 | 14·79 | 100· | .. |
| 180 | .. | .. | .. | .. | .. | .... | .. | .. | 51·82 | 48·18 | 100 | 93·85 | 1·19 | 4·96 | 100·10 | 0·10 |
| 389 | ·54 | 83·80 | 8·91 | .. | 6·75 | N. 58·19 | 39·47 | 2·34 | P. 50·80 | 49·20 | 100 | 94·05 | 1·09 | 4·85 | 100·23 | 0·23 |
| 15 | | | | | | S. 55·02 | 37·02 | 2·02 | R. 77·94 | 22·06 | 100 | 67·07 | 14·78 | 18·15 | 100·06 | 0·06 |
| 404 | .. | .. | .. | .. | .. | .... | .. | .. | 54·18 | 45·82 | 100 | 90·70 | 2·80 | 6·50 | 100·21 | 0·21 |
| 405 | ·09 | 83·73 | 8·58 | ·32 | 7·28 | N. 72·13 | 25·97 | 1·90 | P. 52·13 | 47·87 | 100 | 97·31 | 1·39 | 1·30 | 100·29 | 0·29 |
| 8 | | | | | | S. 70·28 | 25·22 | 1·50 | R. 72·63 | 27·37 | 100 | 62·74 | 26·99 | 10·27 | 100·19 | 0·19 |
| 413 | .. | .. | .. | .. | .. | .... | .. | .. | 52·74 | 47·26 | 100 | 96·28 | 2·16 | 1·56 | 100·29 | 0·29 |
| 232 | ·01 | 83·02 | 11·84 | ·03 | 5·60 | N. 62·31 | 36·93 | ·76 | P. 51·08 | 48·92 | 100 | 93·28 | 3·15 | 3·57 | 100·23 | 0·23 |
| 3 | | | | | | S. 58·42 | 34·19 | ·67 | R. 61·02 | 38·98 | 100 | 63·52 | 25·78 | 10·70 | 100·08 | 0·08 |
| 235 | .. | .. | .. | .. | .. | .... | .. | .. | 51·43 | 48·57 | 100 | 92·23 | 3·95 | 3·82 | 100·22 | 0·22 |
| 278 | ·22 | 16·68 | 73·77 | ·08 | 9·35 | N. 74·49 | 24·21 | 1·30 | P. 53·47 | 46·53 | 100 | 93·92 | ·99 | 5·09 | 100·33 | 0·33 |
| 5 | | | | | | S. 70·38 | 22·40 | 1·15 | R. 48·40 | 51·60 | 100 | 63·62 | 20·92 | 15·46 | 100·04 | 0·04 |
| 283 | .. | .. | .. | .. | .. | .... | .. | .. | 52·87 | 47·13 | 100 | 90·34 | 3·34 | 6·32 | 100·30 | 0·30 |
| 174 | ·01 | 84·93 | 7·57 | ·25 | 7·24 | N. 87·57 | 11·88 | ·55 | P. 52·48 | 47·52 | 100 | 95·99 | 2·15 | 1·86 | 100·26 | 0·26 |
| .. | | | | | | S. 84·21 | 11·31 | ·47 | R. 81·59 | 18·41 | 100 | 74·41 | 17·42 | 8·17 | 100· | .. |
| 174 | .. | .. | .. | .. | .. | .... | .. | .. | 52·90 | 47·10 | 100 | 95·68 | 2·37 | 1·95 | 100·25 | 0·25 |
| 60 | .. | 75·26 | 24·74 | .. | .. | N. 67·51 | 30·47 | 2·02 | P. 50·70 | 49·30 | 100 | 98·88 | ·87 | ·30 | 100·28 | 0·28 |
| .. | | | | | | S. 66·88 | 29·94 | 2·02 | R. 62·40 | 37·60 | 100 | 77·91 | 22·09 | .. | 100· | .. |
| 60 | .. | .. | .. | .. | .. | .... | .. | .. | 50·84 | 49·16 | 100 | 98·58 | 1·12 | ·30 | 100·28 | 0·28 |
| 7 | 2·45 | 3·45 | 90·49 | ·35 | 3·26 | N. 18·67 | 25·70 | 55·63 | P. 67·16 | 32·84 | 100 | 83·50 | 2·17 | 14·33 | 100·27 | 0·27 |
| ... | | | | | | S. 16·77 | 22·86 | 43·87 | R. 53·33 | 46·67 | 100 | 76·67 | ·10 | 13·33 | 100· | .. |
| 7 | .. | .. | .. | .. | .. | .... | .. | .. | 67·00 | 33·00 | 100 | 83·42 | 2·27 | 14·31 | 100·27 | 0·27 |
| 21 | 74·48 | 24·48 | 1·04 | .. | .. | N. 88·54 | 10·42 | 1·04 | P. 56·25 | 43·75 | 100 | 80·21 | 8·85 | 10·94 | 110·94 | 10·94 |
| 126 | | | | | | S. 43·75 | 9·89 | ·36 | R. 90·14 | 9·86 | 100 | 68·26 | 29·71 | 2·03 | 118·26 | 18·26 |
| 147 | .. | .. | .. | .. | .. | .... | .. | .. | 82·77 | 17·23 | 100 | 70·86 | 25·17 | 3·97 | 116·67 | 16·67 |
| 54 | 3·49 | 63·19 | 28·63 | 1·62 | 3·07 | N. 70·09 | 12·50 | 17·41 | P. 60·89 | 39·11 | 100 | 90·60 | 8·38 | 1·02 | 101·53 | 1·53 |
| 75 | | | | | | S. 65·10 | 11·79 | 13·83 | R. 94·66 | 5·34 | 100 | 71·09 | 27·03 | 1·88 | 102·65 | 2·65 |
| 129 | .. | .. | .. | .. | .. | ..... | .. | .. | 75·98 | 24·07 | 100 | 81·91 | 16·69 | 1·40 | 102·03 | 2·03 |
| 2,012 | ·52 | 76·74 | 14·84 | ·24 | 7·66 | N. 69·67 | 28·52 | 1·81 | P. 51·57 | 48·43 | 100 | 94·88 | 1·47 | 3·65 | 100·22 | 0·22 |
| 232 | | | | | | S. 66·43 | 26·94 | 1·51 | R. 71·38 | 28·62 | 100 | 62·16 | 18·97 | 18·87 | 100·40 | 0·40 |
| 2,244 | .. | .. | .. | .. | .. | .... | .. | .. | 52·77 | 47·23 | 100 | 92·89 | 2·54 | 4·57 | 100·23 | 0·23 |
| 1,712 | ·64 | 76·35 | 14·77 | ·28 | 7·96 | N. 69·70 | 28·62 | 1·68 | P. 51·57 | 48·43 | 100 | 95·02 | 1·63 | 3·35 | 100·19 | 0·19 |
| 210 | | | | | | S. 66·49 | 27·07 | 1·45 | R. 68·39 | 31·61 | 100 | 61·32 | 23·68 | ·15 | 100·38 | 0·38 |
| 1,922 | .. | .. | .. | .. | .. | .... | .. | .. | 52·53 | 47·47 | 100 | 93·08 | 2·90 | 4·02 | 100·20 | 0·20 |

16. During the year there were primarily vaccinated 4,666 Christians, 690,801 Hindus, 133,631 Musalmáns, 2,141 Pársis, and 68,993 persons of other castes. Among Hindus and Musalmáns the numbers and percentages are higher than last year, whilst in the remaining castes they are lower.

Caste.

17. The age details are compiled for three periods, *viz.*: under 1 year, between 1 and 6 years, and above 6 years. The numbers under each period primarily vaccinated were respectively 627,179, 256,786 and 16,267 against 624,747, 256,506 and 15,141 during the preceding year. The number of infants successfully vaccinated was 598,069, of children between 1 and 6 years 242,500, and of persons of other ages 13,613. Thus out of every 100 persons primarily vaccinated there were 69·67 infants, of whom 66·43 were successfully vaccinated. Compared with the preceding year this rate is lower by 0·06 per cent., the difference between the numbers vaccinated and the successful cases being only 0·03 per cent. more than last year.

Age.

18. There were 464,209 males and 436,023 females primarily vaccinated. The re-vaccinated were respectively 41,738 and 16,732; and the totals of persons operated on were 505,947 males and 452,755 females. In primary vaccination the sex percentages are respectively 51·57 and 48·43 against 51·57 and 48·43 in the preceding year. In re-vaccination they were respectively 71·38 and 28·62 against 68·39 and 31·61; and in total operations 52·77 and 47·23 against 52·53 and 47·47 in 1888-89.

Sex.

19. The following table shows by districts and circles the percentages of success in primary vaccination and re-vaccination contrasted with those for the previous year:—

Percentages of success.

| No. | Districts and Circles. | Percentages of success of primary vaccinations. | | Percentages of success in re-vaccination. | |
|---|---|---|---|---|---|
| | | 1888-89. | 1889-90. | 1888-89. | 1889-90. |
| 1 | Western Registration District ... | 95·60 | 95·62 | 57·89 | 50·38 |
| 2 | Presidency Circle ... ... ... | 92·80 | 91·68 | 46·46 | 18·09 |
| 3 | Central Registration District ... | 94·53 | 94·46 | 68·78 | 64·48 |
| 4 | Southern Registration District ... | 94·18 | 94·05 | 65·81 | 67·07 |
| 5 | Eastern Gujarát Registration District. | 97·72 | 97·31 | 65·43 | 62·74 |
| 6 | Western Gujarát Circle ... ... | 92·47 | 93·28 | 64·09 | 63·52 |
| 7 | Sind Registration District ... ... | 94·90 | 93·92 | 60·43 | 63·62 |
| 8 | Baroda... ... ... ... ... | 96·31 | 95·99 | 72·91 | 74·41 |
| 9 | Cutch ... ... ... ... ... | 98·46 | 98·83 | 53·62 | 77·91 |
| 10 | Aden, Muskat, Khelat, and Bushire,.. | 88·99 | 83·50 | 100·00 | 76·67 |
| 11 | British Army ... ... ... ... | 78·57 | 80·21 | 54·38 | 68·26 |
| 12 | Native do. ... ... ... ... | 65·19 | 90·60 | 50·76 | 71·09 |
| | Average for the whole Presidency ... | 95·02 | 94·88 | 61·32 | 62·16 |

In the "successful" primary vaccination the percentages are lower than last year in 7 out of 12 districts and circles. On the whole there has been a slight decrease in percentages of successful cases over those of last year.

Rate per mille of population protected by primary vaccinations.

20. The number of persons primarily vaccinated successfully out of every 1,000 of population by districts and circles, as compared with 1888-89, is shown in the following table :—

| No. | Districts and Circles. | Population by Census of 1881. | Total number of persons primarily vaccinated successfully. | | Number of primary successful vaccinations per 1,000 of population. | |
|---|---|---|---|---|---|---|
| | | | 1888-89. | 1889-90. | 1888-89. | 1889-90. |
| 1 | Western Registration District ... ... ... | 3,493,821 | 102,237 | 100,612 | 29·26 | 28·80 |
| 2 | Presidency Circle ... ... ... ... ... | 773,196 | 17,673 | 18,004 | 22·86 | 23·29 |
| 3 | Central Registration District ... ... ... | 4,803,216 | 172,737 | 171,786 | 35·96 | 35·76 |
| 4 | Southern Registration District ... ... .. | 4,187,679 | 141,793 | 161,017 | 33·86 | 38·45 |
| 5 | Eastern Gujarát Registration District ... ... | 4,162,314 | 139,962 | 134,844 | 33·62 | 32·39 |
| 6 | Western Gujarát Circle ... ... ... ... | 2,920,377 | 97,222 | 95,461 | 27·83 | 27·32 |
| 7 | Sind Registration District ... ... ... ... | 2,542,976 | 85,337 | 79,267 | 33·56 | 31·17 |
| 8 | Baroda ... ... ... ... ... ... | 2,185,005 | 68,311 | 66,469 | 31·26 | 30·42 |
| 9 | Cutch .. ... ... ... ... ... ... | 512,084 | 20,799 | 21,227 | 40·62 | 41·45 |
| 10 | Aden, Muskat, Khelat, Bushire, &c. ... ... | *34,860 | 2,507 | 2,151 | 71 92 | 61·70 |
| 11 | British Army... ... ... ... ... ... | ..... | 297 | 154 | ... | ... |
| 12 | Native do. ... ... ... ... ... ... | ..... | 2,843 | 3,190 | ... | ... |
| | Total ... | 25,615,528 | 851,718 | 854,182 | 33·25 | 33·35 |

* For Aden only.

The rate of protection, though higher in Aden, Muskat, Khelat and Bushire is calculated on the population of Aden only,—for other circles it is not available. The next highest ratio is 41·45 in Cutch and lowest in the Presidency Circle On the whole 33·35 persons of all ages per every 1,000 of population against 33·25 last year were primarily vaccinated successfully.

Infants successfully vaccinated as compared with those available at 31 per mille of population.

21. At the rate of 31 per mille of population, and on the total population of 25,615,528, there were successfully vaccinated 75·32 out of every 100 infants available against 75·05 in 1888-89. The subjoined table shows the number of infants protected out of those available for vaccination at the rate of 31 per mille of population, by districts and circles, as likewise the protection of children between 1 and 6 years old :—

| Districts and Circles. | Population. | Children under 1 year available for vaccination at 31 per mille. | Children under 1 year vaccinated successfully during 1889-90. | | Children between 1 and 6 years vaccinated successfully during 1889-90. | |
|---|---|---|---|---|---|---|
| | | | Number. | Ratio per 100 on infants. | Number. | Ratio per 100 on total vaccinated. |
| Western Registration District... ... ... | 3,493,821 | 108,308 | 68,902 | 63·62 | 30,255 | 28·75 |
| Presidency Circle ... ... ... | 773,196 | 23,969 | 14,179 | 59·16 | 2,933 | 14·94 |
| Central Registration District ... ... ... | 4,803,216 | 148,900 | 128,693 | 86·43 | 41,812 | 22·99 |
| Southern Registration District ... ... | 4,187,679 | 129,818 | 94,187 | 72·55 | 63,380 | 37·02 |
| Eastern Gujarát Registration District ... | 4,162,314 | 129,032 | 97,391 | 75·48 | 34,951 | 25·22 |
| Western Gujarát Circle ... ... ... | 2,920,377 | 90,532 | 59,785 | 66·33 | 34,986 | 34·19 |
| Sind Registration District ... ... ... | 2,542,976 | 78,832 | 59,399 | 75·35 | 18,901 | 22·40 |
| Baroda ... ... ... ... ... ... | 2,185,005 | 67,735 | 58,310 | 86·09 | 7,833 | 11·31 |
| Cutch ... ... ... ... ... ... | 512,084 | 15,874 | 14,364 | 90·49 | 6,430 | 29·94 |
| Aden, Muskat, Khelat, Bushire, Steamer Point and Shaik Othman ... ... ... | *34,860 | 1,081 | 432 | 40·00 | 589 | 22·86 |
| British Army ... ... ... ... ... | ..... | ... | 135 | ... | 19 | 9 89 |
| Native do. ... ... ... ... ... | ..... | ... | 2,292 | ... | 411 | 11·79 |
| Total ... 1889-90 ... | 25,615,528 | 794,081 | 598,069 | 75·32 | 242,500 | 26·94 |
| Total ... 1888-89 ... | | | 595,996 | 75·05 | 242,688 | 27·07 |

* For Aden only.

It will be seen from the above, that the Cutch Circle shows the highest percentage of 90·49 infants protected. The next highest percentage of protection was in the Central Registration District, being 86·43, and in the Baroda Circle, 86·09.

Vaccination by establishments.

22. The progress of vaccination by different establishments will be seen from the following table :—

| Establishments. | Persons primarily vaccinated. | | | | Persons re-vaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1888-89. | 1889-90. | Increase. | Decrease. | 1888-89. | 1889-90. | Increase. | Decrease. | 1888-89. | 1889-90. | Increase. | Decrease. |
| Government Vaccinators .. | 4,768 | 3,976 | .. | 792 | 302 | 249 | .. | 53 | 5,070 | 4,225 | .. | 845 |
| Municipal do. .. .. | 67,019 | 67,306 | 287 | .. | 9,513 | 10,755 | 1,242 | .. | 76,532 | 78,061 | 1,529 | .. |
| Cantonment do. .. .. | 2,282 | 2,044 | .. | 238 | 1,767 | 438 | .. | 1,329 | 4,049 | 2,482 | .. | 1,567 |
| Local Fund do. .. .. | 500,656 | 509,306 | 8,650 | .. | 25,476 | 30,044 | 4,568 | .. | 526,132 | 539,350 | 13,218 | .. |
| Native State do. .. .. | 310,994 | 308,408 | .. | 2,586 | 11,213 | 13,088 | 1,875 | .. | 322,207 | 321,496 | .. | 711 |
| Dispensaries .. .. | 6,703 | 5,479 | .. | 1,224 | 374 | 380 | 6 | .. | 7,077 | 5,859 | .. | 1,218 |
| British Army .. .. | 378 | 192 | .. | 186 | 1,451 | 690 | .. | 761 | 1,829 | 882 | .. | 947 |
| Native do. .. .. | 3,594 | 3,521 | .. | 73 | 4,604 | 2,826 | .. | 1,878 | 8,198 | 6,347 | .. | 1,851 |
| Total .. | 896,394 | 900,232 | 3,838 / 0·43 | .. | 54,700 | 58,470 | 3,770 / 6·89 | .. | 951,094 | 958,702 | 7,608 / 0·80 | .. |

In primary vaccination an increase is shown under Local Fund and slightly under Municipal. In all other establishments there was a decrease. In re-vaccination there is an increase in the work of Municipal, Local Fund, Native State and dispensary establishments, and decrease under Government, Cantonment, British and Native Armies. Taking the two kinds of operations together, there is a net increase of 7,608 or 0·80 per cent.

Results in vaccine operations by establishments.

23. The results in primary vaccination, re-vaccination and total operations, as analysed by establishments, are as under :—

| Establishments. | Results in primary vaccination. | | | | | Results in re-vaccination. | | | | | Results in total operations. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Successful. | Unsuccessful. | Unknown. | Total. | Excess of operations. | Successful. | Unsuccessful. | Unknown. | Total. | Excess of operations. | Successful. | Unsuccessful. | Unknown. | Total. | Excess of operations. |
| 2 Government Vaccinators . | 3,718 | 167 | 100 | 3,985 | 9 | 137 | 95 | 17 | 249 | .. | 3,855 | 262 | 117 | 4,234 | 9 |
| *51 Municipal do. .. | 63,367 | 1,135 | 3,011 | 67,513 | 207 | 5,128 | 1,666 | 3,967 | 10,761 | 6 | 68,495 | 2,801 | 6,978 | 78,274 | 213 |
| 2 Cantonment do. .. | 2,006 | 13 | 25 | 2,044 | .. | 279 | 100 | 59 | 438 | .. | 2,285 | 113 | 84 | 2,482 | .. |
| 284 Local Fund do. .. | 482,945 | 6,561 | 20,741 | 510,247 | 941 | 18,750 | 5,960 | 5,350 | 30,060 | 16 | 501,695 | 12,521 | 26,091 | 540,307 | 957 |
| 170 Native State do. .. | 294,002 | 6,760 | 8,412 | 309,174 | 766 | 9,347 | 2,204 | 1,540 | 13,091 | 3 | 303,349 | 8,964 | 9,952 | 322,265 | 769 |
| 33 Dispensaries .. | 4,800 | 218 | 475 | 5,493 | 14 | 225 | 131 | 30 | 386 | 6 | 5,025 | 349 | 505 | 5,879 | 20 |
| British Army .. | 154 | 38 | 21 | 213 | 21 | 471 | 331 | 14 | 816 | 126 | 625 | 369 | 35 | 1,029 | 147 |
| Native do. .. | 3,190 | 349 | 36 | 3,575 | 54 | 2,009 | 839 | 53 | 2,901 | 75 | 5,199 | 1,188 | 89 | 6,476 | 129 |
| Total for the Presidency. 1889-90 .. | 854,182 | 15,241 | 32,821 | 902,244 | 2,012 | 36,346 | 11,326 | 11,030 | 58,702 | 232 | 890,528 | 26,567 | 43,851 | 960,946 | 2,244 |
| Total for the Presidency. 1888-89 .. | 851,718 | 16,357 | 30,031 | 898,106 | 1,712 | 33,541 | 13,166 | 8,203 | 54,910 | 210 | 885,259 | 29,523 | 38,234 | 953,016 | 1,922 |

* Head Vaccinator of Bombay City is not included in this statement as he never works.

In primary vaccination the number of successful cases was greater than last year, being 854,182 against 851,718. In re-vaccination also the successful cases were more than in the preceding year. The intensity of the protective power of primary vaccine operations may be judged by the unsuccessful re-vaccinations. The unsuccessful cases on the whole are less than in 1888-89; whilst the unknown cases are greater by 5,617 than the previous year in total operations.

Percentages of success reviewed by establishments.

24. The percentages of successful cases in each kind of operation by establishments are given below :—

| Kind of operations. | Government. | Municipal. | Cantonment. | Local Fund. | Native State. | Dispensaries. | British Army. | Native Army. | For the whole Presidency. |
|---|---|---|---|---|---|---|---|---|---|
| In successful primary vaccination ... ... ... | 93·51 | 94·15 | 98·14 | 94·82 | 95·33 | 87·61 | 80·21 | 90·60 | 94·95 |
| In successful re-vaccination ... | 55·02 | 47·68 | 63·69 | 62·41 | 71·42 | 59·21 | 68·26 | 71·09 | 61·64 |

The highest percentage under primary vaccination is 98·14 under Cantonment and the lowest is 80·21 in the British Army. The next highest is 95·33 in the Native States and the next lowest is 87·61 in dispensaries. In re-vaccination the highest percentage is 71·42 under Native States and the lowest 47·68 in Municipal establishments.

Work of establishments.

25. The work of the different establishments by districts and circles is as follows.

Work of Government Vaccinators.

26. There are two Government vaccinators for the Cantonments of Rájkot and Deesa. The Rájkot vaccinator is wholly paid from Provincial Funds, a small addition being made to his pay from the Káthiáwár Agency Vaccination Funds. The pay of the Deesa vaccinator is made up by equal contributions from the Provincial and Cantonment Funds, *plus* a small contribution from the Pálanpur Superintendency Vaccination Fund. Besides these two, there are three others, under the Station Staff Surgeons, for the Military Stations of Mhow, Neemuch and Nasirabad, paid from "Military Funds", and their work is included under the head of Native Army and Camp Followers. The Rájkot and Deesa vaccinators work among a population of 126,049 souls in an area of 1,135 square miles. They returned 3,976 primary vaccinations and 249 re-vaccinations, of which 3,718 or 93·51 per cent. and 137 or 55·02 per cent. respectively were successful. Taking the two operations together, 30·59 per 1,000 of population were protected. The total cost was Rs. 520-15-0, equal to annas 2 and pies 2 for each successful case. The unsuccessful and unknown were respectively 167 and 100. In re-vaccinations the unsuccessful and unknown were 95 and 17. There were 9 secondary operations. Each vaccinator on an average operated on 2,112 persons.

Work of Cantonment Vaccinators.

27. There is only one vaccinator for the Cantonments of Poona and Kirkee, which cover an area of 4 square miles and a population of 38,024 (including 8,779 fighting men). His work is supervised by the Deputy Sanitary Commissioner, Central Registration District. Vaccination in the Devláli Cantonment is throughout the year now carried on by the Medical Officer in charge of the Lock Hospital without additional charges. Vaccination is also performed in the Málegaon Cantonment in the Násik Collectorate and Ahmedabad Cantonment in the Ahmedabad Collectorate. Taking the work in the five Cantonments together, there were 2,044 persons primarily vaccinated and 438 re-vaccinated. In primary vaccination 2,006 or 98·14 per cent. were successful, and in re-vaccination 279 or 63·69 per cent. were successful. The rate of protection per mille was 56·63. The total cost was Rs. 862-3-5 or annas 6 for each successful case. There were 13 unsuccessful and 25 unknown cases under primary vaccination, and 100 and 59 respectively in re-vaccination work. No persons were operated on more than once.

Work of Municipal Vaccinators.

28. The following table gives the progress of vaccination by districts and circles under Municipal vaccinators :—

| Districts and Circles. | Persons primarily vaccinated. | | | | Persons re-vaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1888-89. | 1889-90. | Increase. | Decrease. | 1888-89. | 1889-90. | Increase. | Decrease. | 1888-89. | 1889-90. | Increase. | Decrease. |
| 3 Western Registration District ... | 5,831 | 5,913 | 82 | ... | 355 | 415 | 60 | ... | 6,186 | 6,328 | 142 | ... |
| 8 Presidency Circle... | 19,044 | 19,637 | 593 | ... | 2,684 | 3,804 | 1,120 | ... | 21,728 | 23,441 | 1,713 | ... |
| 8 Central Registration District ... | 11,414 | 10,788 | ... | 626 | 2,344 | 1,379 | ... | 965 | 13,758 | 12,167 | ... | 1,591 |
| 9 Southern Registration District ... | 8,513 | 9,247 | 734 | ... | 661 | 1,118 | 457 | ... | 9,174 | 10,365 | 1,191 | ... |
| 7 Eastern Gujárat Registration District... | 11,089 | 11,394 | 305 | ... | 368 | 856 | 488 | ... | 11,457 | 12,250 | 793 | ... |
| 9 Sind Registration District ... ... | 10,145 | 9,414 | ... | 731 | 3,099 | 3,173 | 74 | ... | 13,244 | 12,587 | ... | 657 |
| 2 Aden... ... ... | 983 | 913 | ... | 70 | 2 | 10 | 8 | ... | 985 | 923 | ... | 62 |
| Total ... | 67,019 | 67,306 | 287 | ... | 9,513 | 10,755 | 1,242 | ... | 76,532 | 78,061 | 1,529 | ... |

In primary vaccination an increase of 1,714 is recorded in the Western Registration District, Presidency Circle, and Southern and Eastern Gujarát Registration Districts, whilst a decrease of 1,427 is distributed over the Central and Sind Registration Districts and Aden. In re-vaccination there is an increase of 2,207 in the Municipalities of all districts and circles except those in the Central Registration District, in which there is a decrease of 965. On the whole, taking the two operations together, there is a net increase of 1,529. There are in all 51 working vaccinators, who returned 67,306 primary vaccinations and 10,755 re-vaccinations, of which there were 63,367 and 5,128 successful. The total cost was Rs. 30,761-0-2, equal to annas 7 and pies 2 per each successful case. The unsuccessful and

unknown were respectively 1,135 and 3,011, and 1,666 and 3,967 under each kind of operations. There were 207 secondary operations and 6 cases of revaccination were repeated.

Work of Local Fund Vaccinators.

29. The following table shows the work of Local Fund vaccinators for each of the five registration districts :—

| Districts. | Persons primarily vaccinated. | | | | Persons re-vaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1888-89. | 1889-90. | Increase. | Decrease. | 1888-89. | 1889-90. | Increase. | Decrease. | 1888-89. | 1889-90. | Increase. | Decrease. |
| Western Registration District ... ... | 96,632 | 94,016 | ... | 2,616 | 3,483 | 1,873 | ... | 1,610 | 100,115 | 95,889 | ... | 4,226 |
| Central Registration District ... ... | 152,190 | 152,203 | 13 | ... | 1,145 | 1,647 | 502 | ... | 153,335 | 153,850 | 515 | ... |
| Southern Registration District ... ... | 90,087 | 106,630 | 16,543 | ... | 6,532 | 15,543 | 9,011 | ... | 96,619 | 122,173 | 25,554 | ... |
| Eastern Gujarát Registration District... | 85,877 | 84,627 | ... | 1,250 | 1,374 | 2,883 | 1,509 | ... | 97,251 | 87,510 | ... | 9,741 |
| Sind Registration District ... ... | 75,870 | 71,630 | ... | 4,040 | 12,942 | 8,098 | ... | 4,844 | 88,812 | 79,928 | ... | 8,884 |
| Total ... | 500,656 | 509,306 | 8,650 | ... | 25,476 | 30,044 | 4,568 | ... | 536,132 | 539,350 | 3,218 | ... |

From the foregoing table it will be observed that there is a slight increase in primary vaccination in the Central but considerable in the Southern Registration Districts. In re-vaccination work an increase is shown in the two districts just named and also in Eastern Gujarát. There is a net increase of 3,218 in the total operations. This year there were 284 vaccinators and 39 candidates against 280 and 37 in the previous year, as 4 additional vaccinators and 2 candidates were entertained during the year. The Local Fund vaccinators worked amongst a population of 14,611,187. They primarily vaccinated 509,306 and re-vaccinated 30,044 persons. The number primarily vaccinated successfully was 482,945 and re-vaccinated successfully 18,750 or 94·82 and 62·41 per cent. respectively. The rate of protection per mille of population was 34·43. The total cost amounted to Rs. 89,221-12-4, and each successful case cost annas 2 and pies 9. The unsuccessful in each kind of operations were respectively 6,561 and 5,960, and the unknown were 20,741 and 5,350. There were 941 secondary operations and 16 re-vaccinations repeated. Each vaccinator on an average operated on 1,899 persons.

Work of Native State Vaccinators.

30. The following table shows the work of Native State vaccinators in 5 districts and 4 circles :—

| Districts and Circles. | Persons primarily vaccinated. | | | | Persons re-vaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1888-89. | 1889-90. | Increase. | Decrease. | 1888-89. | 1889-90. | Increase. | Decrease. | 1888-89. | 1889-90. | Increase. | Decrease. |
| Western Registration District ... ... | 4,002 | 4,892 | 890 | ... | 49 | 27 | ... | 22 | 4,051 | 4,919 | 868 | ... |
| Central Registration District ... ... | 16,717 | 16,758 | 41 | ... | 292 | 287 | ... | 5 | 17,009 | 17,045 | 36 | ... |
| Southern Registration District ... ... | 49,900 | 53,566 | 3,666 | ... | 3,367 | 7,524 | 4,157 | ... | 53,267 | 61,090 | 7,823 | ... |
| Eastern Gujarát Registration District... | 44,948 | 41,313 | ... | 3,635 | 399 | 472 | 73 | ... | 45,347 | 41,785 | ... | 3,562 |
| Western Gujarát Circle ... ... | 100,151 | 98,362 | ... | 1,789 | 5,447 | 3,471 | ... | 1,976 | 105,598 | 101,833 | ... | 3,765 |
| Sind Registration District ... ... | 3,317 | 2,757 | ... | 560 | 8 | 15 | 7 | ... | 3,325 | 2,772 | ... | 553 |
| Baroda... ... ... | 70,777 | 69,246 | ... | 1,531 | 1,340 | 1,016 | ... | 324 | 72,117 | 70,262 | ... | 1,855 |
| Cutch ... ... ... | 21,125 | 21,478 | 353 | ... | 304 | 258 | ... | 46 | 21,429 | 21,736 | 307 | ... |
| Khelat ... ... ... | 57 | 36 | ... | 21 | 7 | 18 | 11 | ... | 64 | 54 | ... | 10 |
| Total ... | 310,994 | 308,408 | ... | 2,586 | 11,213 | 13,088 | 1,875 | ... | 322,207 | 321,496 | ... | 711 |

In primary vaccination there is a slight increase in the Native States of the Western, Central and Southern Registration Districts and also in Cutch, but a considerable decrease is shown in Eastern and Western Gujarát, Sind, Baroda and Khelat. In re-vaccination there is a slight decrease in the States of the Western and Central Registration Districts, and also in the Western Gujarát, Baroda and Cutch Circles, but an increase in the rest. There is a net decrease of 711 in the total operations. There are 170 vaccinators against 163 last year. The States of Mevás and Southern Marátha Jághírs have entertained the services of 7 additional vaccinators. An Inspector for the Mahi Kántha Agency and 17 vaccinators—1 for Surgána Dángs, 1 for Dharampor, 4 for Rewa Kántha, 7

for Káthiáwár, 3 for Pálanpur and 1 for Khairpur—are still required. The present establishment of vaccinators worked amongst a population of 8,999,616 persons. The numbers primarily vaccinated were 308,408 and re-vaccinated 13,088: of these 294,002 and 9,347 or 95·33 and 71·42 per cent. respectively were successful. The unsuccessful and unknown in primary vaccination were 6,760 and 8,412 and in re-vaccination 2,205 and 1,540. There were 766 secondary operations and 3 repetitions of re-vaccination. Out of every 1,000 of population 33·71 were successfully operated on against 33·85 last year. The total cost amounted to Rs. 61,151-6-2, which gives annas 3 and pies 3 per each successful case. The average number of persons operated on by each vaccinator was 1,891.

Work of Dispensary Officers.

31. Vaccination was carried on in 33 dispensaries, or 15 less than in the preceding year. The following table shows the progress of vaccination in dispensaries by each district and circle :—

| Districts and Circles. | Persons primarily vaccinated. | | | | Persons re-vaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1888-89. | 1889-90. | Increase. | Decrease. | 1888-89. | 1889-90. | Increase. | Decrease. | 1888-89. | 1889-90. | Increase. | Decrease. |
| Western Registration District | 227 | 153 | .. | 74 | 35 | 31 | .. | 4 | 262 | 184 | .. | 78 |
| Presidency Circle | .. | .. | .. | .. | 116 | 72 | .. | 44 | 116 | 72 | .. | 44 |
| Central Registration District | 417 | 345 | .. | 72 | 94 | 58 | .. | 36 | 511 | 403 | .. | 108 |
| Southern Registration District | 2,050 | 1,746 | .. | 304 | 26 | 166 | 140 | .. | 2,076 | 1,912 | .. | 164 |
| Eastern Gujarát Registration District | 1,269 | 1,213 | .. | 56 | 23 | 34 | 11 | .. | 1,292 | 1,247 | .. | 45 |
| Western Gujarát Circle | 219 | 1 | .. | 218 | 8 | 8 | .. | .. | 227 | 9 | .. | 218 |
| Sind Registration District | 588 | 394 | .. | 194 | 69 | 9 | .. | 60 | 657 | 403 | .. | 254 |
| Baroda | 156 | .. | .. | 156 | .. | .. | .. | .. | 156 | .. | .. | 156 |
| Shaikh Othman, Steamer Point, Bushire and Muskat | 1,777 | 1,627 | .. | 150 | 3 | 2 | .. | 1 | 1,780 | 1,629 | .. | 151 |
| Total | 6,703 | 5,479 | .. | 1,224 | 374 | 380 | 6 | .. | 7,077 | 5,859 | .. | 1,218 |

A decrease of 1,224 is shown in all the districts except the Presidency Circle in which there was no primary vaccination work. In re-vaccination there is a slight increase in the Southern and Eastern Gujarát Registration Districts, but in the total operations there is a net decrease of 1,218 as compared with last year. There were 5,479 persons primarily vaccinated and 380 re-vaccinated. The respective numbers of successful cases were 4,800 and 225. The percentages of success were 87·61 and 59·21 against 89·81 and 60·70 last year. The unsuccessful and unknown were 218 and 475 in primary vaccination and 131 and 30 in re-vaccination. The number of secondary operations was 14 and of persons re-vaccinated more than once 6.

Work performed in the Army.

32. The following table shows details of vaccination in the British and Native Army and amongst their camp followers :—

| | Primary Vaccination. | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | | | | | | 3 | | | 4 | | | | | 5 | 6 |
| | Sex. | Caste. | | | | | | Age. | | | Results. | | | | | | |
| | | | | | | | | | | | Successful. | | | | | | |
| | Males. | Females. | Christians. | Hindus. | Musalmáns. | Pársis. | Other Castes. | Under 1 year. | Between 1 and 6 years. | Above 6 years. | Under 1 year. | Above 1 and under 6 years. | Total of all ages. | Unsuccessful. | Unknown. | Total. | Excess of Operations over Persons. |
| *British Army.* | | | | | | | | | | | | | | | | | |
| Regiments | 78 | 65 | 143 | ... | ... | ... | ... | 133 | 8 | 2 | 99 | 7 | 106 | 37 | 21 | 164 | 21 |
| Camp Followers | 30 | 19 | ... | 47 | 2 | ... | ... | 37 | 12 | ... | 36 | 12 | 48 | 1 | ... | 49 | ... |
| Total | 108 | 84 | 143 | 47 | 2 | ... | ... | 170 | 20 | 2 | 135 | 19 | 154 | 38 | 21 | 213 | 21 |
| *Native Army.* | | | | | | | | | | | | | | | | | |
| Regiments | 1,159 | 594 | 34 | 1,092 | 552 | 7 | 68 | 958 | 260 | 535 | 905 | 248 | 1,602 | 195 | 9 | 1,806 | 53 |
| Camp Followers | 985 | 783 | 89 | 1,133 | 456 | 50 | 40 | 1,510 | 180 | 78 | 1,387 | 163 | 1,588 | 154 | 27 | 1,769 | 1 |
| Total | 2,144 | 1,377 | 123 | 2,225 | 1,008 | 57 | 108 | 2,468 | 440 | 613 | 2,292 | 411 | 3,190 | 349 | 36 | 3,575 | 54 |
| Grand Total | 2,252 | 1,461 | 266 | 2,272 | 1,010 | 57 | 108 | 2,638 | 460 | 615 | 2,427 | 430 | 3,344 | 387 | 57 | 3,788 | 75 |

| | Re-vaccination. | | | | | | | Percentages of successful cases. | |
|---|---|---|---|---|---|---|---|---|---|
| | 7 | | 8 | | | 9 | 10 | 11. | 12 |
| | Sex. | | Results. | | | | | | |
| | Males. | Females. | Successful. | Unsuccessful and doubtful. | Unknown. | Total. | Excess of Operations over Persons. | In Primary Vaccinations. | In Re-vaccinations. |
| *British Army.* | | | | | | | | | |
| Regiment ... ... ... ... ... | 567 | 62 | 410 | 331 | 14 | 755 | 126 | 74·13 | 65·18 |
| Camp Followers .. ... ... ... | 55 | 6 | 61 | ... | ... | 61 | ... | 97.96 | 100· |
| Total ... | 622 | 68 | 471 | 331 | 14 | 816 | 126 | 80·21 | 68·26 |
| *Native Army.* | | | | | | | | | |
| Regiment ... ... ... ... ... | 2,480 | 79 | 1,798 | 785 | 51 | 2,634 | 75 | 91·39 | 70·26 |
| Camp Followers ... ... ... ... | 195 | 72 | 211 | 54 | 2 | 267 | ... | 89·82 | 79·03 |
| Total ... | 2,675 | 151 | 2,009 | 839 | 53 | 2,901 | 75 | 90·60 | 71·09 |
| Grand Total | 3,297 | 219 | 2,480 | 1,170 | 67 | 3,717 | 201 | 90·06 | 80·77 |

British Army.

Amongst the European troops the number of persons primarily vaccinated was 192, and in 154 cases the operation was successful. The unsuccessful and unknown cases amounted to 38 and 21 respectively. There were 21 secondary operations. The re-vaccinations were 790, of which 471 were successful, whilst 331 were unsuccessful and 14 were unknown. In 126 cases re-vaccination was repeated.

Native Army.

In the Native Army the primarily vaccinated numbered 3,521 and the re-vaccinated 2,826 against 3,594 and 4,604 respectively in the preceding year. The number of persons primarily vaccinated successfully was 3,190 and in re-vaccination there were 2,009 successful cases. The unsuccessful and unknown cases numbered respectively 349 and 36 in primary vaccination and 839 and 53 in re-vaccination; the secondary operations were 54 in number and in 75 cases re-vaccination was repeated. The work performed by vaccinators in the Military Stations of Mhow, Neemuch and Nasirabad is included, as usual, in that for camp followers.

Average number of operations for each kind of establishment.

33. The average number of persons operated on by different establishments is specified below for the years 1888-89 and 1889-90 :—

| No. | Establishments. | Average number of Persons operated on, | |
|---|---|---|---|
| | | 1888-89. | 1889-90. |
| 1 | Government Vaccinators ... ... ... | 2,535 | 2,112 |
| 2 | Municipal do. ... ... ... | 1,562 | 1,531 |
| 3 | Cantonment do. ... ... ... | 2,024 | 1,241 |
| 4 | Local Fund do. ... ... ... | 1,879 | 1,899 |
| 5 | Native State Vaccinators ... ... ... | 1,977 | 1,891 |
| 6 | For the whole Presidency ... ... ... | 1,883 | 1,857 |

There is a decrease under all establishments except that of Local Fund.

Average number of operations per each vaccinator by districts and circles.

34. The subjoined table indicates the averages by districts and circles :—

| No. | Districts and Circles. | Average number of persons vaccinated by each Vaccinator. | | Names of Deputy Sanitary Commissioners and Superintendents. |
|---|---|---|---|---|
| | | 1888-89. | 1889-90. | |
| 1 | Western Registration District ... ... | 1,558 | 1,471 | Dr. J. W. Clarkson. |
| 2 | Presidency Circle ... | 2,716 | 2,930 | Dr. Shantaram Vinayak Kantak. |
| 3 | Central Registration District. | 2,064 | 2,036 | Dr. A. W. F. Street. |
| 4 | Southern Registration District ... ... | 1,674 | 1,917 | Dr. O. H. Channer. |
| 5 | Eastern Gujarát Registration District ... ... | 1,947 | 1,913 | Dr. M. B. Colah. |
| 6 | Western Gujarát Circle ... | 2,459 | 2,357 | Ditto. |
| 7 | Sind Registration District... | 1,700 | 1,537 | Drs. J. C. H. Peacocke and G. Bainbridge. |
| 8 | Baroda Circle ... ... | 2,326 | 1,952 | Dr. Samsudin J. Suleman. |
| 9 | Cutch „ ... ... | 1,261 | 1,279 | Dr. P. J. Damania. |
| 10 | Aden „ ... ... | 492 | 923 | Dr. Charles Monks. |
| 11 | Khelat ... ... | 64 | 54 | |
| | Average for the whole Presidency .... | 1,883 | 1,857 | |

The averages are below those of last year in the Western, Central, Eastern Gujarát, Western Gujarát, Sind, Baroda and Khelat Circles, whilst in the remaining districts they are higher than the year preceding.

English lymph.

35. The subjoined statement shows the result of the English lymph received during the year :—

| Supply received in. | No. on the packet. | Districts and Circles. | Number of Tubes received and tested. | Number of Children and calves operated on. | Number of Insertions. | Number of Resulting vesicles. | Character of vesicles. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| January 1890. | 32489, 1111, 2064 | Western Registration District ... ... | 17 | 15 | 68 | 3 | Very small ... | 2 broken. |
| | 2063, 26302, 32548 | Presidency Circle ... | 30 | 5 | 66 | 37 | Good ... ... | Both classes of lymph continue in use in the work of vaccination and are yielding satisfactory results. |
| | 459, 26265, 2064 | Central Registration District ... ... | 17 | 14 | 97 | 24 | Vesicles large ... | Lymph good. |
| | 64, 26264, 32434, 2064 | Southern Registration District ... ... | 17 | 10 | 60 | ... | ..... | All unsuccessful. |
| | 68, 32531, 32489 | Eastern Gujarát Registration District . | 12 | 11 | 49 | 15 | Middling. | |
| | 26298, 32579, 32517, 32589, 32509 | Western Gujarát Circle ... ... ... | 10 | 10 | 56 | 10 | 3 small, 4 large and 3 middling. | More children were vaccinated, and if the result is good, the lymph will be distributed. |
| | 26270, 26290, 2064 | Sind Registration District... ... ... | 17 | 17 | 97 | 12 | 10 middling and 2 bad. | |
| | 26268 | Baroda ... ... ... | 5 | 5 | 30 | 1 | Good. | |
| | 73 | Cutch ... ... ... | 5 | 5 | 20 | 3 | 3 good ... ... | Out of 5 children vaccinated, each with one tube, 3 failed entirely, 1 took two and the other one vesicles. |
| | | Aden ... ... ... | 18 | 18 | 34 | 20 | Good. | |
| | | Total ... | 148 | 110 | 577 | 125 | | |

There was only one consignment of 130 tubes, 90 of humanized and 40 of bovine lymph for the Bombay District and 4 consignments for Aden, where English lymph is sent direct.

Quality of lymph in use.

The quality of lymph in use was reported generally to be good, but the results do not appear to be satisfactory, as there were 577 insertions of which the resulting vesicles were 125 (61 good, 28 large, 30 middling and 6 small) and the remaining 452 totally failed.

Lymph supplied.

36. During the year lymph was supplied to the Medical Officer, Her Majesty's Indian Marine Steamer "Dalhousie," Bombay Harbour; to the Staff Surgeon, Neemuch; Station Hospital, Aden; to His Highness Mahárája Scindia, Gwalior; to the Deputy Surgeon General, Central Provinces, Nágpur; to the Civil Surgeon, Barabanki; to the Medical Officers, Bombay Rifles, Neemuch; 2nd Bombay Lancers, Bombay, Kashmir; 3rd Battalion Bombay Rifles, Indore, Mhow, and Deesa, by the Superintendent of Vaccination, Presidency Circle, Bombay.

Lymph was also supplied to the Station Hospital, Belgaum, and to the Medical Officer, 30th Regiment, Native Infantry, from the Deputy Sanitary Commissioner, Southern Registration District: also to the Medical Officers in charge Regiments at Hingola, Aurangabad, Mominabad, Jalna, Bolaram and Raichur; to the Civil Surgeons of Unao, Barabanki and Harda; to the Superintendents of Vaccination at Lucknow and Lalitpur, and Superintendent of Pánchgani, by the Deputy Sanitary Commissioner, Central Registration District. A supply of lymph was sent to the Medical Officers in charge Her Majesty's 14th Regiment, Bombay Infantry, Bhúj; Bombay Rifles, Neemuch; Western Rájputána States, Jodhpur; to the Medical Clerk, Ajmere; to the Assistant Surgeons, Sádra, by the Deputy Sanitary Commissioner, Eastern Gujarát Registration District.

Animal vaccination.

37. Efforts are being made to introduce animal vaccination, as far as practicable, throughout the Presidency. Several vaccinators and candidates of this department, as well as medical students, were trained under Dr. Kantak, the Superintendent of Vaccination, Bombay. Amongst those who received practical instruction in animal vaccination are—the Superintendent of Vaccination, Karáchi, one vaccinator from the Western Registration District, 2 Licentiates of Medicine and Surgery, and 2 female medical students. Animal vaccination was carried on in Bombay and Poona (City and Cantonment) all the year round, and for two months in the cold weather in Junágad Town in Western Gujarát, where 12 heifers were successfully inoculated, and the lymph distributed among the vaccinators. At Karáchi several calves were inoculated but without success. The following table shows the number of heifers inoculated and the monthly result of the operations in Bombay and Poona:—

| Months. | Poona City. | | | Poona Cantonment. | | | Bombay City. | | | Total. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Heifers inoculated. | Successful. | Unsuccessful. | Heifers inoculated. | Successful. | Unsuccessful. | Heifers inoculated. | Successful. | Unsuccessful. | Heifers inoculated. | Successful. | Unsuccessful. |
| April 1889 ... ... | 7 | 7 | ... | 4 | 4 | ... | 61 | 61 | ... | 72 | 72 | ... |
| May ,, ... ... | 7 | 7 | ... | 4 | 4 | ... | 70 | 66 | 4 | 81 | 77 | 4 |
| June ,, ... ... | 7 | 7 | ... | 5 | 5 | ... | 60 | 60 | ... | 72 | 72 | ... |
| July ,, ... ... | 6 | 6 | ... | 5 | 5 | ... | 52 | 52 | ... | 63 | 63 | ... |
| August ,, ... ... | 7 | 7 | ... | 7 | 7 | ... | 45 | 44 | 1 | 59 | 58 | 1 |
| September ,, ... ... | 7 | 7 | ... | 6 | 6 | ... | 43 | 43 | ... | 56 | 56 | ... |
| October ,, ... ... | 7 | 7 | ... | 4 | 4 | ... | 52 | 50 | 2 | 63 | 61 | 2 |
| November ,, ... ... | 7 | 7 | ... | 5 | 5 | ... | 47 | 47 | ... | 59 | 59 | ... |
| December ,, ... ... | 6 | 6 | ... | 5 | 5 | ... | 50 | 50 | ... | 61 | 61 | ... |
| January 1890 ... ... | 7 | 7 | ... | 5 | 5 | ... | 53 | 53 | ... | 65 | 65 | ... |
| February ,, ... ... | 6 | 6 | ... | 5 | 5 | ... | 56 | 55 | 1 | 67 | 66 | 1 |
| March ,, ... ... | 7 | 7 | ... | 6 | 6 | ... | 87 | 84 | 3 | 100 | 97 | 3 |
| Total ... | 81 | 81 | ... | 61 | 61 | ... | 676 | 665 | 11 | 818 | 807 | 11 |

In Poona City 81 heifers were successfully inoculated at a cost of Rs. 284-12-0 and in Poona Cantonment 61 heifers at a cost of Rs. 228-1-0. In Bombay City 676 heifers were inoculated of which 11 failed. The number of failures during the year was not so large as in the preceding year when it was 30, but the number of calves affected by foot and mouth disease was exceptionably large, *viz.* 96.

Places where animal vaccination was carried on.

Vaccination with animal lymph was also carried on in Bándra and Kúrla in the Thána Collectorate, and in Hubli and Dhárwár in the Dhárwár Collectorate. Owing to the Municipality of Belgaum refusing to sanction funds, animal vaccination in that town had to be discontinued at the end of the small-pox epidemic in 1889. Except in Bombay City, where animal lymph only is used, vaccination in all other places was carried on from arm to arm with human lymph.

Expenditure.

38. The total expenditure on account of vaccination is shown in the following table, compared with the preceding year:—

| Establishments. | 1888-89. | 1889-90. | Increase. | Decrease. |
|---|---|---|---|---|
| | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. |
| Provincial ... ... | 94,303 0 5 | 1,09,059 13 1 | 14,756 12 8 | ..... |
| Municipal ... ... | 29,707 15 6 | 30,761 0 2 | 1,053 0 8 | ..... |
| Cantonment ... ... | 1,048 7 2 | 862 3 5 | ..... | 176 3 9 |
| Local Fund ... ... | 89,206 4 1 | 89,221 12 4 | 15 8 3 | ..... |
| Native States ... ... | 59,562 6 6 | 61,151 6 2 | 1,588 15 8 | ..... |
| Total ... | 2,73,828 1 8 | 2,91,056 3 2 | 17,228 1 6 | ..... |

The increase under provincial head is chiefly due to the pay of Dr. Clarkson and Dr. Channer having been drawn in full throughout the year. Under Municipal and Native States it is due to the additional establishment entertained during the year. The decrease in Cantonment is due to the absence of the Málegaon vaccinator on half pay. The total cost for the whole Presidency, including all charges, was Rs. 2,91,056-3-2, whilst the successful cases, excluding dispensaries and the army, amounted to 879,679. The average cost per each successful case was annas 5 and pies 4, or 4 pies more than last year.

Cost of each successful case including all charges.

Cost of each successful case after deducting the pay of the Supervising Officers.

39. The total cost and the cost per each successful case, after deducting the pay of the Deputy Sanitary Commissioners and Superintendents, is shown in the following table by districts and circles:—

| Names of Districts and Circles. | Deputy Sanitary Commissioners and Superintendents. | Successfully vaccinated and re-vaccinated. | Total cost, excluding the pay of Deputy Sanitary Commissioners and Superintendents. | Average cost of each successful vaccination. | Number of Vaccinators. |
|---|---|---|---|---|---|
| | | | Rs. a. p. | Rs. a. p. | |
| Western Registration District. | Dr. J. W. Clarkson ... ... | 101,646 | 31,752 9 0 | 0 5 0 | 77 |
| Presidency Circle ... ... | „ Shantaram Vinayak Kuntak. | 18,658 | 17,562 7 7 | 0 15 1 | 9 |
| Central Registration District. | „ A. W. F. Street ... ... | 173,865 | 38,240 1 6 | 0 3 6 | 97 |
| Southern do. do. ... | „ O. H. Channer ... ... | 175,709 | 41,964 13 0 | 0 3 9 | 107 |
| Eastern Gujarát Registration District. | „ M. B. Colah ... ... | 136,441 | 33,192 15 4 | 0 3 10 | 79 |
| Western Gujarát Circle ... | Drs. W. H. Quicke and M. B. Colah. | 97,827 | 22,599 12 1 | 0 3 8 | 50 |
| Sind Registration District ... | „ J. C. H. Peacoke and G. Bainbridge. | 86,118 | 31,320 0 5 | 0 5 10 | 67 |
| Baroda ... ... ... ... | Dr. Samsudin J. Suleman ... | 67,225 | 12,821 2 4 | 0 3 1 | 44 |
| Cutch ... ... ... ... | „ B. J. Damania ... .. | 21,428 | 7,143 10 9 | 0 5 4 | 17 |
| Aden ... ... ... ... | „ C. Monks ... ... ... | 708 | 531 6 0 | 0 12 0 | 2 |
| Khelat ... ... ... ... | ..... | 54 | ..... | ..... | ... |
| | Total ... 1889-90 ... | 879,679 | 2,37,128 14 0 | 0 4 4 | 549 |
| | Total ... 1888-89 ... | 872,746 | 2,17,428 1 8 | 0 4 0 | 531 |

The total cost for the year under report, excluding the pay of Deputy Sanitary Commissioners and Superintendents of Vaccination, was Rs. 2,37,128-14, which, when divided amongst 879,679 successful cases, amounts to annas 4 and pies 4, or pies 4 more than for the previous year.

Work of Deputy Sanitary Commissioners and Superintendents of Vaccination.

40. The inspectorial work performed by the supervising officers is shown in the following table :—

| Districts and Circles. | Names of Deputy Sanitary Commissioners and Superintendents. | Number of Encampments. | Number of Travelling Days. | Distance travelled in miles. | Number of villages visited. | Number of vaccinated children inspected. |
|---|---|---|---|---|---|---|
| Western Registration District. | Dr. J. W. Clarkson ... ... | 44 | 115 | 1,500 | 121 | 3,735 |
| Central do. do. ... | ,, A. W. F. Street ... ... | 63 | 177 | 2,971 | 383 | 12,766 |
| Southern do. do. ... | ,, O. H. Channer ... ... | 55 | 177 | 3,312 | 180 | 7,425 |
| Eastern Gujarát Registration District. | ,, M. B. Colah ... ... | 34 | 119 | 1,343 | 292 | 6,889 |
| Western Gujarát Circle ... | Drs. W. H. Quicke and M. B. Colah. | 23 | 43 | 769 | 90 | 2,297 |
| Sind Registration District ... | ,, J. C. H. Peacocke and G. Bainbridge. | 75 | 105 | 2,516 | 160 | 3,726 |
| Total ... | 1889-90 ... | 294 | 736 | 12,411 | 1,226 | 36,838 |
| | 1888-89 ... | 185 | 571 | 10,195 | 763 | 25,854 |

The highest number of children inspected in any one district during the year was 12,766 in the Central Registration District by Dr. Street, but 2,330 of these were inspected without the test of calling their names from the register; the least number inspected was in the Western Gujarát Circle, where only 2,297 children were inspected. For the entire Presidency the total number of children inspected is greater than last year by 10,984.

Inspection from vaccination registers.

41. The following table shows the work of supervising officers tested by calling names from registers :—

| Districts and Circles. | Work tested by calling names from Registers. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of vaccinated children inspected. | Present during inspection. | | | | Absent during inspection. | | Number of persons whom the Vaccinator has returned as vaccinated. | | | | |
| | | Successful. | | | Unsuccessful. | Absence accounted for. | Absence unaccounted for. | Successful. | Unsuccessful and doubtful. | Unknown. | Total. | Excess of Operations over Persons. |
| | | Good. | Middling. | Bad. | | | | | | | | |
| Western Registration District ... | 2,867 | 1,667 | 665 | 336 | 149 | 1,989 | ... | 4,389 | 134 | 288 | 4,811 | 5 |
| Central do. do. ... | 10,436 | 9,535 | 502 | 285 | 114 | 8,238 | ... | 16,990 | 246 | 1,456 | 18,692 | 18 |
| Southern do. do. ... | 2,994 | 1,136 | 771 | 963 | 124 | 2,609 | ... | 5,222 | 98 | 283 | 5,603 | .. |
| Eastern Gujarát Registration District ... ... ... ... | 6,889 | 4,162 | 1,872 | 655 | 200 | 1,856 | ... | 8,440 | 184 | 124 | 8,748 | 3 |
| Western Gujarát Circle ... ... | 1,894 | 1,345 | 317 | 168 | 64 | 387 | ... | 2,112 | 106 | 63 | 2,281 | ... |
| Sind Registration District ... | 2,706 | 1,066 | 830 | 751 | 59 | 1,637 | ... | 4,112 | 55 | 179 | 4,346 | 3 |
| Total ... 1889-90 ... | 27,786 | 18,911 | 4,957 | 3,208 | 710 | 16,666 | ... | 41,265 | 823 | 2,393 | 44,481 | 29 |
| Total ... 1888-89 ... | 20,030 | 14,702 | 3,329 | 1,729 | 270 | 11,417 | ... | 29,384 | 514 | 1,572 | 31,470 | 23 |

It will be seen from the foregoing tables that out of the 36,838 children inspected, the results in 27,786 instances were tested by calling their names from registers in which there were enrolled the names of 44,452 children, of whom 29 were vaccinated more than once on account of the failure of the first operation. The results given by vaccinators were 41,265 as successful, 794 unsuccessful, exclusive of 29 secondary operations, and 2,393 unknown, while on inspection they were found to be 27,076, 710 and 16,666 respectively. Excluding the " unknown " or rather the number of children " absent " at the time of inspection from both sides, the vaccinators' figures give the percentages of 98·04 as successful and 1·96 as unsuccessful, while the inspection figures return them as 97·45 and 2·55. Again, out of 27,076 successful children there were 18,911, who had good cicatrices on their arms, 4,957 " middling " and 3,208

Truthfulness of vaccination registers.

"bad". These results show the degree of protection afforded. The greatest number of inspections was in the Central and Eastern Gujarát Registration Districts, whilst the least was in the Western Gujarát Circle.

Inspections without vaccination registers.

The number of children, whose arms were inspected without the register test, was 9,052, of whom 4,431 were in the Southern, 868 in the Western, 2,330 in the Central Registration Districts, 403 in Western Gujarát, and 1,020 in Sind. In Eastern Gujarát no inspections were held without the register test.

Remarks on the work of Supervising officers.

42. All the supervising officers have worked with energy and zeal throughout the year, as may be seen by the above results of their labours.

Work of Inspectors and Assistant Superintendents.

43. The work of Inspectors and Assistant Superintendents of Vaccination is detailed by districts and circles in the table subjoined.

| Districts and Circles. | Number of encampments. | Number of travelling days. | Distance travelled in miles. | Number of villages visited. | Work tested by calling names from Registers. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Number of vaccinated children inspected. | Present during inspection. | | | | Absent during inspection. | | Number of persons whom the vaccinator has returned as vaccinated. | | | | |
| | | | | | | Successful. | | | Unsuccessful. | Absence accounted for. | Absence unaccounted for. | Successful. | Unsuccessful and doubtful. | Unknown. | Total. | Excess of operations over persons. |
| | | | | | | Good. | Middling. | Bad. | | | | | | | | |
| Western Registration District .. | 658 | 1,223 | 10,017 | 1,547 | 35,113 | 24,359 | 5,765 | 3,260 | 1,729 | 12,143 | 456 | 46,149 | 647 | 954 | 47,750 | 38 |
| Central Registration District ... ... | 767 | 1,600 | 12,555 | 1,592 | 47,491 | 41,019 | 3,602 | 2,191 | 679 | 21,641 | 92 | 64,827 | 690 | 3,730 | 69,247 | 23 |
| Southern Registration District .. .. | 509 | 1,193 | 16,044 | 1,344 | 41,342 | 22,224 | 9,161 | 8,170 | 1,787 | 21,179 | 8 | 53,164 | 1,332 | 3,103 | 62,599 | 70 |
| Eastern Gujarát Registration District .. | 264 | 854 | 8,836 | 1,827 | 39,717 | 28,615 | 7,896 | 2,265 | 941 | 10,392 | .. | 48,234 | 975 | 1,017 | 50,226 | 117 |
| Western Gujarát Circle | 234 | 534 | 6,948 | 1,059 | 26,307 | 11,898 | 6,475 | 6,347 | 1,587 | 7,095 | .. | 30,404 | 1,649 | 1,399 | 33,452 | 50 |
| Sind Registration District ... .. .. | 683 | 1,363 | 12,648 | 2,964 | 40,771 | 15,180 | 11,657 | 10,840 | 3,094 | 17,643 | 4 | 53,021 | 2,332 | 3,188 | 58,541 | 123 |
| Cutch .. .. .. | 228 | 261 | 1,518 | 394 | 13,698 | 12,113 | 939 | 309 | 337 | 4,188 | 40 | 17,634 | 246 | 102 | 17,982 | 56 |
| Baroda .. .. .. | 1,134 | 863 | 6,415 | 1,278 | 30,281 | 25,600 | 2,469 | 1,430 | 782 | 5,195 | 20 | 33,932 | 795 | 820 | 35,547 | 51 |
| Total.. {1889-90 .. | 4,477 | 7,901 | 74,981 | 12,005 | 274,720 | 181,008 | 47,964 | 34,812 | 10,936 | 99,476 | 620 | 352,365 | 8,666 | 14,313 | 375,344 | 528 |
| {1888-89 .. | 4,169 | 8,013 | 71,423 | 12,201 | 293,532 | 194,477 | 53,503 | 35,161 | 10,391 | 103,022 | 263 | 372,911 | 9,765 | 14,607 | 397,283 | 466 |

33 Inspectors and 6 Assistant Superintendents were on travelling duty. Of this number, 27 Inspectors and 2 Assistant Superintendents were paid by Government and the remainder by Native States. The names of 374,816 children were called from registers, of whom 274,720 were present and 99,476 absent, but their absence was accounted for, whilst 620 had migrated. Out of 274,720 children inspected 263,784 were protected and in 10,936 cases the operation was unsuccessful. Again out of 263,784 successful cases 181,008 had "good" cicatrices, 47,964 "middling" and 34,812 "bad." In the registers tested the results were entered as 352,365 successful, 8,666 unsuccessful and doubtful, 14,313 unknown or absent, and 528 secondary operations. The greatest number of villages seen was in Sind. The largest number of children inspected was in the Central Registration District.

Conduct of inspecting officers.

44. The conduct of the inspecting officers was reported to be satisfactory.

Total inspections.

45. Taking the work of all Deputy Sanitary Commissioners, Superintendents, Assistant Superintendents and Inspectors together there were 4,771 encampments, 37,392 miles travelled in 8,637 days, and 311,558 children inspected in 13,231 villages. Out of every 100 persons operated on 32·75 were inspected this year against 33·58 in the preceding year.

Conduct of vaccinators.

46. 8 vaccinators were dismissed, 15 were degraded and reduced, 5 were suspended and 135 were fined, for misconduct, to the aggregate amount of Rs. 179. With these exceptions the conduct of the vaccinators was generally good.

Conduct of clerks and kárkúns.

47. Two kárkuns in the Presidency Circle were fined. All the rest worked to the entire satisfaction of their superiors.

Inoculation.

48. Inoculation was not practised anywhere in the Presidency Proper; it was however reported to have been practised during March in the Nagar Párkar Táluka in Sind.

49. No instances were reported of any other disease but cow-pox having been communicated through vaccination.

Ill effects by vaccination.

Abscesses and ulcers in the sites of vaccination vesicles were observed by Dr. Colah.

Dr. Kantak says: "It is well known that bovine lymph is more powerful and affects the system of tender children more strongly during the development of vesicles than does humanized lymph. The records have heretofore shown no cases of death resulting from an attack of small-pox after vaccination with bovine lymph. Cases have occurred in which probably owing to children having already, at the time of vaccination, been in the incubatory period, got small-pox subsequently; then again rarely cases have occurred in which small-pox in a modified form has attacked persons vaccinated in infancy. A few cases are sometimes seen in which the vesicular development has run an irregular course attended with inflammatory symptoms, glandular swellings and slight skin eruption, &c.; and although the majority of these cases are due to the general filthy condition of their bodies and their surroundings, a few may be due to the occasional deterioration of the lymph, which it is impossible by mere inspection to detect. When vaccination has been performed with efficient calf lymph and under proper precautions the system receives an impress more powerful and more durable and far less mischievous, than when operated on with humanized lymph."

A few cases of small-pox occurring after vaccination were seen by Dr. Street.

Aid from Civil, Revenue and Political officers.

50. The Civil, Revenue and Political officers have rendered aid when required to all the officers of this department.

Small-pox by Collectorates.

51. The table given below shows the deaths from small-pox for the year under report as well as the ages of the deceased and the number of persons successfully operated on in each district of the Bombay Presidency:—

| Districts and Circles. | | Collectorates. | Deaths from Small-pox. | | | Number of persons successfully operated on. |
|---|---|---|---|---|---|---|
| | | | Total deaths. | Ages. | | |
| | | | | Under 1 year. | Under 12 years. | |
| Western Registration District. | 1 | Khándesh Collectorate ... ... | 361 | 87 | 260 | 38,515 |
| | 2 | Násik ... ... ... ... | 188 | 59 | 123 | 20,887 |
| | 3 | Thána ... ... ... ... | 341 | 73 | 237 | 23,794 |
| | 4 | Kolába ... ... ... ... | 156 | 34 | 113 | 13,748 |
| | | Total ... | *1,046 | 253 | 733 | 96,944 |
| Presidency Circle. | 5 | Bombay City ... ... ... | 279 | 108 | 85 | 13,705 |
| Central Registration District. | 6 | Ahmednagar Collectorate... ... | 64 | 35 | 25 | 28,612 |
| | 7 | Poona ... ... ... ... | 424 | 134 | 218 | 31,464 |
| | 8 | Sholápur ... ... ... | 181 | 70 | 84 | 24,089 |
| | 9 | Satára ... ... ... ... | 127 | 52 | 50 | 39,971 |
| | 10 | Ratnágiri ... ... ... | 264 | 59 | 115 | 34,063 |
| | | Total ... | 1,060 | 350 | 492 | 158,199 |
| Southern Registration District. | 11 | Belgaum ... ... ... | 155 | 34 | 83 | 37,256 |
| | 12 | Dhárwár ... ... ... | 735 | 83 | 284 | 31,449 |
| | 13 | Bijápur ... ... ... ... | 402 | 41 | 152 | 34,711 |
| | 14 | Kánara ... ... ... ... | 195 | 65 | 143 | 15,976 |
| | | Total ... | 1,487 | 223 | 662 | 119,392 |
| Eastern Gujarát Registration District. | 15 | Surat ... ... ... ... | 151 | 41 | 86 | 19,099 |
| | 16 | Broach ... ... ... ... | 263 | 86 | 140 | 13,093 |
| | 17 | Kaira ... ... ... ... | 86 | 26 | 48 | 26,057 |
| | 18 | Panch Mahálś ... ... ... | 3 | ... | 1 | 9,733 |
| | 19 | Ahmedabad ... ... ... | 93 | 29 | 47 | 27,946 |
| | | Total ... | 596 | 182 | 322 | 95,928 |
| Sind Registration District. | 20 | Karáchi... ... ... ... | 930 | 244 | 376 | 13,965 |
| | 21 | Hyderabad ... ... ... | 848 | 239 | 523 | 22,965 |
| | 22 | Thar and Párkar... ... ... | 100 | 11 | 34 | 10,164 |
| | 23 | Shikárpur ... ... ... | 265 | 75 | 76 | 30,911 |
| | 24 | Upper Sind Frontier — ... | 22 | 7 | 9 | 5,736 |
| | | Total ... | 2,165 | 576 | 1,018 | 83,741 |
| | | Total ... 1889-90 ... | 6,633 | 1,692 | 3,312 | 567,909 |
| | | 1888-89 ... | 5,591 | 1,626 | 2,756 | 545,423 |

52. Small-pox was prevalent more or less in every district of the Presidency during the year. The highest number of deaths was recorded in Sind. With regard to Bombay City, Dr. Kantak remarks that "in July 1889 a representation was made soliciting the attention of Government to the general unprotected condition of Native Christians coming from Goa and the class of Hindus who constitute the majority of mill-hands in this city and who come from Ratnágiri and down the coast and certain suggestions were submitted. Government were pleased to address the Mill-owners' Association on the subject, and I was able to ascertain the general condition of the mill-hands. The inspection revealed, so far as it went, a practical or complete susceptibility to small-pox in the proportion of 16·54 per cent; in 23 of the mills no inspection took place on account of the perverse attitude of the operatives and the inability or refusal of the managers to assist; with the exception of about 162 females, all the female hands and young operatives refused to be inspected; and there is reason to believe that if the inspection had included them, the proportion of unprotected persons would have been far higher. I subsequently submitted all this in the form of a report. No orders have been issued thereon up to date, but it is hoped that some definite measures are in contemplation with respect to giving effect to my suggestions, for, doubtless, this condition of the above-mentioned classes is a standing menace to the general security of the community against small-pox. Nothing short of legislation can meet the case, and the present is the most appropriate time for it, for while the Factory Bill is under enactment, the opportunity can be taken of adding a section making it obligatory on the mill managers to insist on their employés showing proofs of having been efficiently protected agaist small-pox. Taking the figures of deaths from this cause for the last 40 years into consideration, it will be observed that although the position of the city as the largest centre of commerce in the East naturally renders it peculiarly liable to the importation of small-pox and other infectious diseases, the ravages of that disease have gradually become less severe. There is however the lurking fear that so long as the general unprotected condition of the Goanese and the mill operatives continues as at present, there is risk in every epidemic."

Progress in the Western Registration District.

53. The Western Registration District extends over an area of 26,322 square miles, comprising the Collectorates of Khándesh, Násik, Thána and Kolába and the Native States of the Khándesh Agency (Mewás), Jawhár and Janjira. It has a population of 3,455,093 persons. It is administered by a Deputy Sanitary Commissioner who has, working under him, 6 Inspectors of Sanitation and Vaccination, 2 clerks, 8 municipal, 1 cantonment, 60 local fund, 4 candidate and 4 Native State vaccinators and 79 peons. 2 additional inspectors (1 for Khándesh, and 1 for Thána and Kolába), 6 local fund vaccinators (2 for Násik and 4 for Thána Collectorates), and 2 candidates for Násik Collectorate, are required. Vaccination returns are received from 3 dispensaries only. Each vaccinator on an average worked amongst a population of 47,330 persons and in an area of 360·57 square miles. They primarily vaccinated 105,073 and re-vaccinated 2,333 persons; last year the respective numbers were 106,717 and 3,899. There were 100,474 or 95·62 per cent. successful cases under primary vaccination and 1,172 or 50·24 per cent. under re-vaccination. These together give the total rate of protection as 29·09 per mille of population, whilst last year it was 29·85. The total cost was Rs. 41,352-9-0 and the average cost per each successful case was annas 6 and pies 6, or anna 1 and pies 4 more than last year. Each vaccinator averaged 1,471 persons. The medical officers of 3 dispensaries returned 153 persons primarily vaccinated and 31 re-vaccinated. There were 1,046 deaths from small-pox.

Khándesh.

54. In the Khándesh Collectorate there are 26 vaccinators; an additional inspector is wanted as this district is a very large one. Each vaccinator has on an average an area of 382·4 square miles and a population of 47,586 persons. The primary vaccinations amounted to 40,613, which in 38,363 instances or 94·46 per cent. were successful. 198 persons were re-vaccinated and in 92 = 46·46 per cent. cases successfully. The rate of protection per mille of population was 31·08 against 31·35 in 1888-89. The total cost of vaccination was Rs. 8,087-10-3, which is equal to annas 3 and pies 3 for each successful case, or a pie more than the preceding year. The average number of operations per each vaccinator was 1,570. The medical

officer of Dharangaon dispensary performed vaccination work which amounted to 65 primary and 3 re-vaccinations. 361 deaths from small-pox were returned during the year.

Násik.

55. In the Násik Collectorate there are 15 vaccinators, but 2 additional local fund vaccinators—1 for Peint and 1 for Báglán and Kalvan Tálukas—and 2 candidates are required. The average population and area per vaccinator were respectively 52,080 persons and 396 square miles. There were 22,255 primary vaccinations and 188 re-vaccinations, of which 20,786 and 101 or 93·40 and 53·72 per cent. were successful. The rate per mille of population protected was 26·74, whilst last year it was 28·62. The total cost was Rs. 4,220-10-9, which equals annas 3 and pies 3, or the same as last year per each successful case. Each vaccinator vaccinated 1,496 persons on an average. No vaccination work was performed in dispensaries. There were 188 deaths from small-pox.

Thána.

56. The Thána Collectorate has 15 vaccinators, and 4 more local fund vaccinators are required. Each vaccinator has on an average a population of 53,824 persons and an area of 262·4 square miles. Those primarily vaccinated were 24,118 and re-vaccinated 518. The successful cases under each head were 23,514 and 183 respectively and their percentages of success 97·50 and 35·33. The rate of protection per 1,000 of population was 29·35; last year it was 27·40. Each vaccinator vaccinated 1,642 persons. The total cost was Rs. 4,816-10-8, or annas 3 per each successful case against annas 3 and pies 2 in the year preceding. In two dispensaries—Kurla and Mátherán—88 primary vaccinations and 28 re-vaccinations were performed. Deaths from small-pox were returned as 341.

Kolába.

57. In the Kolába Collectorate there are 13 vaccinators, each of whom has on an average a population of 37,140 persons and an area of 115·11 square miles. There were 13,195 primary vaccinations and 1,402 re-vaccinations performed. The successful cases were 12,979 and 769 or 98·36 and 54·85 per cent. respectively. The rate of protection per 1,000 of population was 28·47 against 35·44 last year. The total cost was Rs. 3,959-6-3. The average cost of each successful case was annas 3 and pies 11, or 5 pies more than the previous year. Each vaccinator vaccinated on an average 1,144 persons. No vaccination work was performed in dispensaries. There were 156 deaths from small-pox.

Native States in the Western Registration District.

58. The states of the Khándesh Agency, Jawhár and Janjira have a collective area of 4,699 square miles and a population of 185,187 persons. There are now 4 vaccinators, but 1 for the Surgána State is still wanted. The number of persons primarily vaccinated and re-vaccinated by the 4 vaccinators of Jawhár, Janjira and Mewás States was respectively 4,892 and 27, of which 4,832 and 27 were successful. The protected were 23·50 per mille of population against 21·64 last year. Each vaccinator on an average operated on 1,230 persons. The total expenditure amounted to Rs. 1,172-9-1 and the average cost per each successful case was annas 3 and pies 10.

Progress in the Presidency Circle.

59. Vaccination has been carried on in Bombay City for many years under great difficulties and disadvantages, because no proper central building has been provided to shelter the calves from which lymph is obtained. The want of a vaccination depôt and quarters for the Superintendent has been urged on the Municipal Commissioner year after year but without success; the importance of this matter may be understood by the Corporation in the event of a failure of lymph supply during an epidemic of small-pox. They cannot plead the excuse of not having received sufficient warning of the possibility of such a disaster occurring. The city of Bombay comprises the Presidency Circle. It has an area of 22 square miles with a population of 773,196 persons. It is administered by a Superintendent of Vaccination paid by Government, who has under his orders an Assistant Superintendent, 4 clerks, 13 kárkúns, 1 head vaccinator, 7 public vaccinators, 2 assistants and 3 peons,—all paid

by the Municipality. There were 19,637 primary vaccinations and 3,804 re-vaccinations against 19,044 and 2,684 last year. The successful cases were respectively 18,004 and 654 or 91·68 and 17·19 per cent. The rate per mille of population protected was 24·13 against 24·45 last year. Each vaccinator vaccinated 2,930 persons on an average. The total cost was Rs. 21,762-7-7, or rupee 1 and annas 2 and pies 8 per each successful case; last year it was rupee 1 anna 1 and pies 10. Vaccination was practised by the medical officers in the House of Correction and Common Jail. They re-vaccinated 72 persons. There were 279 deaths from small-pox.

Progress in the Central Registration District.

60. The Central Registration District comprises the Collectorates of Ahmednagar, Poona, Sholápur, Sátára and Ratnágiri, the Native States of Akalkot, Modnimb, the Sátára Jághírs (Aundh, Bhor and Phaltan) and Sávantvádi. It has a population of 4,803,216 and an area of 29,273·1 square miles. The district is administered by a Deputy Sanitary Commissioner, who has under his orders 6 Inspectors of Sanitation and Vaccination, 2 clerks, 8 municipal, 1 cantonment, 72 local fund, 6 candidate and 10 Native State vaccinators, and 100 peons. Thirteen additional vaccinators with peons are required. The area for each vaccinator is 321·68 square miles with a population of 52,782 souls. The vaccinators performed 181,520 primary vaccinations and 3,729 re-vaccinations against 182,313 and 5,536 respectively last year. Under each head the successful cases were respectively 171,444 and 2,421 or 94·45 and 64·92 per cent. There were 36·20 persons per 1,000 of population successfully operated on, whilst last year the number was 36·67. The average number of vaccinations performed by each vaccinator was 2,036 and the average cost per each successful case, calculated on the total cost of Rs. 46,640-1-6, was annas 4 and pies 4; last year it was annas 4 and pies 2. In the Sávantvádi dispensary 345 persons were primarily vaccinated and 58 re-vaccinated. There were 1,060 deaths from small-pox against 1,335 in 1883-89.

Ahmednagar.

61. In the Ahmednagar Collectorate there are 15 vaccinators, and the average population and area per vaccinator are respectively 50,082 persons and 444·4 square miles. There were 30,201 primary vaccinations and 318 re-vaccinations, and the successful cases 28,412 and 200 respectively: the percentages of success were 94·08 and 62·89. The rate per mille of population protected was 38·09 against 38·89 last year. Each vaccinator vaccinated 2,035 persons. The total cost was Rs. 4,422-1-4 and the average cost per each successful case was annas 2 and pies 6: the same as last year. No dispensary officer performed any vaccination work. There were 64 deaths from small-pox against 235 last year.

Poona.

62. In the Poona Collectorate there are 17 vaccinators. Two more municipal vaccinators are required—one for Junnar, and the other for the Poona Suburban Municipality and the Kirkee Cantonment. The average population and area per vaccinator are respectively 52,978 persons and 314·6 square miles. Out of 32,820 primary vaccinations and 1,376 re-vaccinations 30,753 and 711 or 93·70 and 51.67 per cent. were successful. The rate per mille of population protected was 34·94 against 36·21 last year. Each vaccinator on an average operated on 2,012 persons. The total cost was Rs. 5,914-4-1, which gives the average cost per each successful case as annas 3: the same as last year. There was no dispensary vaccination work performed. There were 424 deaths from small-pox against 671 last year.

Sholápur.

63. In the Sholápur Collectorate there are 14 vaccinators, each of whom has on an average an area of 322·93 square miles and a population of 41,606 persons. There were 25,321 primary vaccinations and 306 re-vaccinations: of these 23,857 and 232 or 94·22 and 75·82 per cent. were successful. The rate per mille of population protected was 41·36 against 44·31 last year. Each vaccinator vaccinated 1,831 persons. The total cost was Rs. 4,428-15-10, which gives annas 2 and pies 8 as the average cost per successful case; last year it was annas 2 and pies 7. No dispensary officer performed vaccination in this zilla. There were 181 deaths from small-pox against 189 last year.

64. In the Sátára Collectorate there are 19 vaccinators. One additional local fund vaccinator for the Tásgaon Táluka and four municipal vaccinators—one for Karád, one for Tásgaon, one for Wái and one between Ashta and Islámpur towns—are required. Each vaccinator has on an average a population of 55,913 persons and an area of 262·5 square miles. There were 42,228 persons primarily vaccinated and 601 re-vaccinated. The successful cases of each were 39,513 or 93·57 and 458, or 76·21 per cent. The rate of protection per mille of population was 37·62 against 38·14 in 1888-89. Each vaccinator vaccinated 2,254 persons. The total expenditure was Rs. 6,892-5-11, or annas 2 and pies 4 per each successful case. It was annas 2 and pies 3 last year. No vaccination work was performed by dispensary officers. There were 127 deaths from small-pox against 36 in the previous year.

Sátára.

65. In the Ratnágiri Collectorate there are at present 16 vaccinators, but 6 more are required, namely,—4 local fund vaccinators (1 for Khed, 1 for Sangameshvar, 1 for Ratnágiri, Rájápur and Devgad Tálukas, and 1 for Dápoli) and 2 municipal vaccinators (1 for Ratnágiri and 1 for Chiplún towns). Each vaccinator at present has on an average a population of 62,318 persons and an area of 245·12 square miles. The number of primary vaccinations was 34,192 and of re-vaccinations 841. The successful cases were respectively 33,060 and 640 or 96·69 and 76·10 per cent. The rate of protection per mille of population was 33·80 against 31·86 last year. The average number of vaccinations for each vaccinator was 2,190. The total cost was Rs. 5,296-1-1, or annas 2 and pies 2 per successful case; last year it was annas 2 and pies 4. No vaccination work was performed by dispensary officers. There were 264 deaths from small-pox against 204 in the preceding year.

Ratnágiri.

66. The Native States in this district are Akalkot, Modnimb (which belongs to the Miraj State), Sátára Jághírs and Sávantvádi. They have a collective population of 509,440 persons and an area of 3,828 square miles. In Modnimb, vaccination is carried on by the Mádha Táluka vaccinator of the Sholápur Zilla. The Sávantvádi State maintains 3 vaccinators. Akalkot has 1 and the Sátára Jághírs 6 vaccinators. The total number operated on, excluding the dispensaries, was 17,045, of which 287 were re-vaccinations. The successful cases were 15,849 or 94·58 per cent. and 180 or 62·72 per cent. under each kind of operation. The rate of protection per 1,000 of population was 31·46 against 31·84 last year. The total cost was Rs. 2,481-9-4, or annas 2 and pies 5 per successful case against annas 2 and pies 6 in the year preceding. In the Sávantvádi dispensary 345 persons were vaccinated and 58 re-vaccinated, the successful cases being 342 and 21.

Native States in the Central Registration District.

67. The Southern Registration District comprises the Collectorates of Belgaum, Dhárwár, Bijápur and Kanára, the Kolhápur States, Jath, the Southern Marátha Jághírs and the Savanúr State under the Dhárwár Agency. It has a population of 4,187,679 persons and is administered by a Deputy Sanitary Commissioner, who has under his orders 6 Inspectors of Sanitation and Vaccination, 1 Assistant Superintendent of Vaccination, 2 clerks, 9 municipal, 60 local fund, 6 candidate and 32 Native State vaccinators, and 106 peons. Besides this establishment, 2 additional inspectors, 7 local fund, 3 candidate and 1 municipal vaccinators are required. Vaccination was carried on by the medical officers of 8 dispensaries. There were primarily vaccinated 169,443 and re-vaccinated 24,185 persons against 148,500 and 10,560 last year. There were 159,487 or 94·12 per cent. successful primary vaccinations and 16,222 or 67·07 per cent. re-vaccinations, the rate of protection per mille of population being 41·96 against 35·08 last year. The total cost was Rs. 51,564-13-0 and the average cost per each successful case was annas 4 and pies 8: the same as last year.

Progress in the Southern Registration District.

68. In the Belgaum Collectorate there are 18 vaccinators. One additional local fund and one municipal vaccinator are necessary, and also one extra candidate vaccinator. Each vacci-

Belgaum.

nator has on an average a population of 48,001 persons and an area of 259 square miles. The number of persons under each operation was 35,934 and 4,268 and the successful cases were 34,458 and 2,802, the percentages of success being 95·89 and 65·65 or 45·44 per mille of population against 33·58 for last year. Each vaccinator vaccinated 2,233 persons. The total cost was Rs. 5,309-15-8, or annas 2 and pies 3 per each successful case; last year it amounted to annas 2 and pies 10. There were 155 deaths from small-pox during the year under notice.

Dhárwár.

69. In the Dhárwár Collectorate there are in all 21 vaccinators. No increase in the number of vaccinators for the present is required. One additional inspector is however necessary, the district being a large one. Each vaccinator has on an average a population of 42,043 persons and an area of 216 squares miles. There were 32,028 persons primarily vaccinated and 3,351 re-vaccinated. The successful cases in each were 29,634 and 1,815 or 92·53 and 54·16 per cent. Out of every 1,000 persons 35·62 were successfully vaccinated against 34·38 in 1888-89. The average number of vaccinations performed by each vaccinator was 1,769. The total cost was Rs. 6,677-5-5, or annas 3 and pies 4 per each successful case, whilst last year the rate was 3 annas and 6 pies. No medical officer performed any vaccination work in the dispensaries. There were 735 deaths from small-pox recorded in this district during the year.

Bijápur.

70. In the Bijápur Collectorate there are 15 vaccinators. The Bágalkot town vaccinator attends to vaccination work in the surrounding villages of the táluka besides the town, and consequently a moiety of his pay is defrayed by the local board. Three local fund vaccinators and one candidate vaccinator are needed for this district. At present each vaccinator has on an average a population of 42,566 persons and an area of 384 square miles. The number of persons primarily vaccinated was 32,844 and re-vaccinated 5,893. The successful cases in each were 30,975 or 94·31 per cent. and 3,771 or 63·99 per cent. The rate of protection per mille of population was 54·42 against 41·57 in the preceding year. The average number of vaccinations performed by each vaccinator was 2,582. The total cost was Rs. 4,578-4-7, or anna 1 and pies 11 per each successful case against annas 2 and pies 4 in the previous year. The dispensary officer at Indi performed 6 primary vaccinations. There were 402 deaths from small-pox.

Kánara.

71. In the Kanára Collectorate there are 15 vaccinators, but 3 additional local fund vaccinators and 1 candidate vaccinator are required. Another inspector is also wanted. Each vaccinator has on an average a population of 28,123 persons and an area of 261 square miles. They primarily vaccinated 15,114 and re-vaccinated 3,155, of which the successful cases were 13,709 and 2,267 respectively, the successful percentages being 90·70 and 71·85. The rate of protection per mille of population was 37·87; last year it was 26·09. Each vaccinator vaccinated 1,218 persons. The total cost was Rs. 4,310-5-5, or 4 annas and 4 pies per each successful case against 6 annas in the previous year. No dispensary work was recorded during the year. There were 195 deaths from small-pox.

Native States in the Southern Registration District.

72. The States of Kolhápur, the Southern Marátha Jághírs, the Jath State under the Bijápur Agency and the Savanur State under the Dhárwár Agency have a collective area of 5,531 square miles and a population of 1,324,932 persons. There are 32 vaccinators. The Kolhápur States have one Assistant Superintendent of Vaccination and the Jamkhandi and the Sángli States have each an Inspector of Sanitation and Vaccination. There were 53,566 persons primarily vaccinated and 7,524 re-vaccinated. The successful cases of each kind were 50,754 and 5,569 respectively and the percentages of success were 94·75 and 74·00. The rate per mille of population protected was 42·51 against 36·25 last year. Each vaccinator on an average vaccinated 1,909 persons. The total cost was Rs. 10,984-11-6, or annas 3 and pies 2 per each

successful case. In 7 dispensaries, 6 in the Sángli State and 1 in Mudhol, 1,740 persons were primarily vaccinated and 166 re-vaccinated.

Progress in the Eastern Gujarát Registration District.

73. The Eastern Gujarát Registration District comprises the Collectorates of Surat, Broach, Kaira, Panch Mahâls and Ahmedabad, and the Native States of Mahi Kántha, Rewa Kántha, Cambay, the Surat Agency and Jambughoda. It has a population of 4,162,314 persons and an area of 27,712·075 square miles, and is administered by a Deputy Sanitary Commissioner, who has under his orders 5 Inspectors of Sanitation and Vaccination, 2 clerks, 7 municipal, 42 local fund, 5 candidate and 25 Native State vaccinators, and 83 peons. The area for each vaccinator was 374·487 square miles with a population of 56,247. There were 137,355 persons primarily vaccinated and 4,215 re-vaccinated against 141,952 and 2,141 in 1888-89. The successful cases were 133,797 and 2,644. The protected were 32·78 per mille of population, whilst in the preceding year they were 33·68. Each vaccinator vaccinated 1,913 persons. The total expenditure was Rs. 41,592-15-4 and the average cost per each successful case was annas 4-11. In 6 dispensaries 1,213 persons were primarily vaccinated and 34 re-vaccinated. The deaths from small-pox were 374 against 174 last year.

Surat.

74. In the Collectorate of Surat there are 11 vaccinators. Each vaccinator has on an average a population of 55,836 persons and an area of 151·1 square miles. The number of persons primarily vaccinated was 19,066 and the successful cases were 18,539 or 97·24 per cent. The number of persons re-vaccinated was 418 and the successful cases were 228 or 54·55 per cent. Protection was afforded to 30·55 out of every 1,000 of population against 32·98 last year. Each vaccinator on an average operated on 1,771 persons. The total cost was Rs. 4,471-11-11 and the average cost per each successful case was annas 2 and pies 9, whilst in the preceding year it was 2 annas and 5 pies. There is only 1 dispensary at Bulsár wherein 360 primary vaccinations were performed and 14 re-vaccinations. There were 151 deaths from small-pox, whilst last year there were 80.

Broach.

75. There are 6 vaccinators in the Collectorate of Broach. Each vaccinator has on an average a population of 54,488 persons and an area of 242·2 square miles. The number primarily vaccinated was 12,427 and re-vaccinated 1,667: of these the successful cases were 12,029 and 1,064, respectively, or 96·80 and 63·83 per cent. The rate of protection per 1,000 was 40·05 against 31·59 last year. Each vaccinator vaccinated on an average 2,349 persons, and the average cost per each successful case was annas 2 and pies 4 on the total cost of Rs. 1,943-10-7, whilst in the preceding year each successful case cost annas 2 and pies 10. No vaccination work was performed by dispensary officers. There were 263 deaths from small-pox during the year under report.

Kaira.

76. In the Kaira Collectorate there are 11 vaccinators. Each vaccinator has on an average a population of 73,164 persons and an area of 146·2 square miles. Out of 26,091 persons primarily vaccinated and 278 re-vaccinated, 25,511 or 97·78 per cent. and 183 or 65·83 per cent. were successfully operated on. The protected were 31·93 in 1888-89; they were 30·45 per 1,000 of population. Each vaccinator on an average vaccinated 2,397 persons. The total cost amounted to Rs. 3,810-6-3, or annas 2 and pies 2 per each successful case. In the Kapadvanj dispensary and Kaira Jail there were 391 persons primarily vaccinated and 18 re-vaccinated. There were 86 deaths from small-pox against 4 in the preceding year.

Panch Mahâls.

77. In the Panch Mahâls there are 6 vaccinators, each of whom has on an average a population of 42,580 persons and an area of 268·9 square miles. Out of 9,884 persons primarily vaccinated and 131 re-vaccinated, 9,650 or 97·63 and 83 or 63·36 per cent. were successful. The rate of protection per mille of population was 38·10; in the preceding year it was 39·29. Each vaccinator vaccinated 1,669 persons. The total expenditure was Rs. 1,945-1-7, or annas 3 and pie 1 against annas 3 last

year per each successful case. There were only 3 deaths from small-pox against 4 recorded in the previous year.

Ahmedabad.

78. In the Ahmedabad Collectorate there are 15 vaccinators. Each vaccinator has on an average a population of 57,088 persons and an area of 255 square miles. There were 27,819 persons primarily vaccinated and 1,229 re-vaccinated. The successful cases were 26,964 or 96·93 and 706 or 57·45 per cent. The rate of protection per mille of population was 32·31 against 35·15 in the previous year. Each vaccinator vaccinated 1,937 persons. The total cost was Rs. 4,657-10-7. The average cost per successful case was annas 2 and pies 8, or 3 pies more than in the year 1888-89. In 2 dispensaries 329 persons were primarily vaccinated, but there were no re-vaccinations. Small-pox caused 93 deaths against 67 last year.

Native States in the Eastern Gujarát Registration District.

79. The States of Rewa Kántha, Mahi Kántha, Cambay, the Surat Agency and Jambughoda have a collective area of 17,368 square miles and a population of 1,282,422 persons. There were 25 vaccinators employed in all these states, but 1 additional inspector for the Mahi Kántha Agency, 1 more vaccinator for Dharampor State, and 4 more vaccinators for the Rewa Kántha Agency are required. The number of primarily vaccinated was 41,313 and of re-vaccinated 472: of these 40,384 and 363 or 97·75 and 76·91 per cent. were successfully operated on. Protection was afforded to 31·77 per mille of population, whilst last year the rate was 34·55. Each vaccinator on an average operated on 1,671 persons. In Sachín and Jambughoda States vaccination is performed by the local fund vaccinators. The total cost in all the states was Rs. 6,249-2-0, or annas 3 and pies 2 per each successful case. The medical officer at Sádra dispensary in the Mahi Kántha State primarily vaccinated 134 and re-vaccinated 2 persons.

Progress in the Western Gujarát Circle.

80. The Western Gujarát Circle comprises the Native States of Káthiáwár and Pálanpur. It has an area of 27,256·48 square miles and a population of 2,920,377 persons. For this Circle there are 3 Assistant Superintendents, 2 clerks, 2 Government and 43 Native State vaccinators, 5 candidate vaccinators and 52 peons. Seven vaccinators and 1 inspector are required for the Káthiáwár States and 3 vaccinators for Pálanpur. The average number of square miles for each vaccinator is 107·14. Vaccination is carried on in the Rájkot dispensary. The number of primary vaccinations and re-vaccinations were respectively 102,338 and 3,720 against 104,919 and 5,749 in the preceding year. The successful cases were 95,460 and 2,367, their successful percentages being 93·28 and 63·63. The rate of protection was 33·50 per 1,000 of population, whilst in the preceding year it was 34·48. Each vaccinator vaccinated 2,357 persons. The total cost was Rs. 23,877-0-11, or annas 3 and pies 11 per each successful case; last year it was annas 4 and pies 2.

Káthiáwár.

81. The States of Káthiáwár have a collective area of 19,256·48 square miles and a population of 2,343,899 persons. There are 36 vaccinators, and 7 more vaccinators are still required. The number of persons primarily vaccinated was 83,716 and re-vaccinated 3,073. The successful cases were 77,909 and 1,885, or 93·06 and 61·34 per cent. Protection was afforded to 34·04 per 1,000 of population against 33·67 last year. The average per each vaccinator was 2,411 operations, and the average cost per each successful case was annas 3, calculated on the total cost of Rs. 14,789-9-2. In Rájkot dispensary only 1 child was primarily vaccinated with success and 8 re-vaccinated, 1 of which was successful.

Pálanpur States.

82. The Pálanpur States have an area of 6,041 square miles and a population of 576,478 persons. There are 9 vaccinators; 3 more are required. The number of persons primarily vaccinated was 18,622 and that of the re-vaccinated 647. The successful cases were 17,551 and 482 or 94·25 and 74·50 per cent. The rate of protection per mille of population was 31·28 against 37·80 last year. The average work per each vaccinator was 2,141 persons. The total cost was Rs. 3,724-13-6, or annas 3 and pies 4 per each successful case. Last year it was annas 2 and pies 8.

Progress in the Sind Registration District.

83. The Sind Registration District comprises the Collectorates of Karáchi, Hyderabad and Shikárpur, Thar and Párkar, the Upper Sind Frontier and the State of Khairpur. It has an area of 54,123·01 square miles and a population of 2,542,976. It is administered by a Deputy Sanitary Commissioner, who has under his orders 1 Superintendent of Vaccination, 6 Inspectors of Sanitation and Vaccination, 2 clerks, 3 municipal kárkúns, 9 municipal, 50 local fund, 5 candidate and 3 Native State vaccinators, and 68 peons. Three additional vaccinators with peons are required for 3 rural circles in the Karáchi Collectorate and 1 in the Khairpur State; also one more Superintendent of Vaccination for the supervision of municipal vaccinators. Vaccination is carried on in 7 dispensaries. Each vaccinator has an area of 887·26 square miles with a population of 41,688 persons. Those primarily vaccinated numbered 84,001, and the re-vaccinated were 11,286 against 89,332 and 16,049 in the preceding year. The successful cases were respectively 78,936 and 7,182. The rates of success were 93·97 and 63·64 per cent. and that of protection was 33·87 per mille of population. Each vaccinator on an average vaccinated 1,537 persons. The total cost was Rs. 43,770-0-9 and for each successful case it was annas 8-2, or 10 pies more than last year. There were 394 persons primarily vaccinated and 9 re-vaccinated by the medical officers of the 7 dispensaries. There were 2,165 deaths from small-pox.

Karáchi.

84. There are 13 vaccinators in the Karáchi Collectorate. One additional vaccinator has been sanctioned from 1st April 1890, but 3 more are still required for the tálukas of Kohistan, Ghorábári and Sujawal. Each vaccinator had on an average a population of 36,822 persons and an area of 1,078 square miles. The number primarily vaccinated was 13,357 and the re-vaccinated 2,816. The successful cases were respectively 12,026 and 1,899 or 90·04 and 67·44 per cent., whilst 29·09 per 1,000 of population were protected. Each vaccinator vaccinated 1,244 persons. The total cost was Rs. 4,446-9-7, or annas 5 and pie 1 per each successful case against annas 4 and pies 3 last year. In dispensaries 50 persons were primarily vaccinated and 8 were re-vaccinated. There were 930 deaths from small-pox against 112 in the previous year.

Hyderabad.

85. In the Hyderabad Collectorate there are 14 vaccinators, each of whom has on an average a population of 53,902 and an area of 644·97 square miles. There were 23,109 persons primarily vaccinated and 1,617 re-vaccinated: of these 21,849 or 94·55 and 1,037 or 64·13 per cent. were successfully operated on, The rate of protection per mille of population was 30·33. Each vaccinator on an average vaccinated 1,766 persons. The total cost amounted to Rs. 5,156-0-7, which gives annas 3 and pies 7, or a pie more than last year per each successful case. In Tando Adam dispensary 79 persons were primarily vaccinated and 1 person re-vaccinated. There were 848 deaths from small-pox against 153 in 1888-89.

Thar and Párkar.

86. In the Thar and Párkar District there are 7 vaccinators, each of whom has on an average a population of 29,049 persons and an area of 1,818 square miles. They primarily vaccinated 9,270 and re-vaccinated 1,672 persons. The successful cases were 8,970 or 96·77 and 1,170 or 69·98 per cent. The protected were 49·87 per 1,000 against 60·03 in the preceding year. Each vaccinator on an average vaccinated 1,563 persons. The total cost was Rs. 2,648-15-5, or annas 4 and pies 2 per each successful case against annas 3 and pies 6 last year. In 2 dispensaries 25 persons were primarily vaccinated and none re-vaccinated. Small-pox caused 100 deaths against 8 last year.

Shikárpur.

87. There are 21 vaccinators in the Shikárpur Collectorate, each of whom has on an average a population of 39,666 persons and an area of 467·10 square miles. They primarily vaccinated 29,881 and re-vaccinated 4,478 persons. The successful cases were 28,313 or 94·75 and 2,598 or 58·02 per cent. respectively. The protected were 37·11 per mille of population against 39·86 in the preceding year. Each vaccinator vaccinated 1,636 persons. The total cost was Rs. 8,294-10-11, or annas 3 and pies 5 per each successful case: the same as last year. No work was done

by the medical officers at the dispensary towns this year. There were 265 deaths from small-pox against 201 in the year preceding.

Upper Sind Frontier.

88. In the Upper Sind Frontier District there are 4 vaccinators, each of whom has on an average a population of 36,045 persons and an area of 582·71 square miles. They performed 5,627 primary and 688 re-vaccinations. The successful cases were 5,069 and 475 or 90·08 and 69·04 per cent. The rate of protection per 1,000 of population was 38·45. Each vaccinator averaged 1,579 operations. The total cost was Rs. 1,551-9-3 and the cost of each successful case was annas 4 and pies 6, or 1 pie less than last year. In the dispensary at Jacobabad 240 persons were primarily vaccinated; none re-vaccinated. There were 22 deaths from small-pox against 36 in the year previous.

Khairpur State.

89. The Khairpur State has an area of 6,109 square miles and a population of 129,153 persons. There are 3 vaccinators; 1 more is required for Mirwáh. They primarily vaccinated 2,757 and re-vaccinated 15 persons: of these 2,709 or 98·26 per cent. and 3 or 20·00 per cent. were successfully operated on. The protected were 21·00 per mille of population. Each vaccinator on an average vaccinated 924 persons. The total cost was Rs. 1,317, or annas 7-9 per each successful case against 6 annas and 6 pies in the preceding year.

Progress in the Baroda State.

90. The state of Baroda has a population of 2,185,005 persons and an area of 8,570 square miles. It is administered for vaccination purposes by the Chief Medical Officer employed by the Darbár, who has under his orders 4 inspectors, 36 vaccinators and 40 peons. Each vaccinator has on an average 238 square miles and a population of 60,695. There were 69,246 persons primarily vaccinated and 1,016 re-vaccinated; the successful cases under each head were 66,469 and 756 respectively. The percentages were 95·98 under primary and 74·41 under re-vaccination against 96·30 and 72·91 last year. The rate of protection per mille of population was 30·77; last year it was 31·04. Each vaccinator vaccinated on an average 1,952 persons. The total cost was Rs. 12,821-2-4, or annas 3 and pie 1 per each successful case. Dispensary vaccination was discontinued in this state from the current year.

Progress in the Cutch Circle.

91. The State of Cutch has a population of 512,084 persons and an area of 6,500 square miles. It is administered by a Superintendent of Vaccination, who has under him an Assistant Superintendent, 17 vaccinators and 19 peons. Each vaccinator has an average population of 30,123 and an area of 382 square miles. The number of persons primarily vaccinated was 21,478 and re-vaccinated 258 against 21,125 and 304 respectively last year. The successful cases were 21,227 and 201 or 98·33 and 77·91 per cent. The rate of protection per mille of population was 41·84; last year it was 40·93. Each vaccinator operated on an average on 1,279 persons. The total expenditure was Rs. 7,143-10-9 and the average cost per each successful case was annas 5 and pies 4; in the preceding year it was annas 5 and pies 8.

Progress in Aden.

92. Aden has an area of 11·6 square miles and a population of 34,860 persons. The Municipality defrays the cost of one male and one female vaccinator and one peon who work under the supervision of the Civil Surgeon. All cases of vaccination reported as successful are verified and payment is made to the vaccinators according to results and not in the form of a monthly salary as heretofore. This system, however, has not been very successful, as there were in the year under report only 913 persons primarily vaccinated against 983 in the preceding year. There were 10 re-vaccinations against 2 in 1888-89. Of the primary vaccinations 704 and of the re-vaccinations 4 were successful. The rate of protection afforded was 23·31 per 1,000 of population. The total cost was Rs. 531-6-0 and the average cost per each successful case was annas 12. In the dispensary of Shaikh Othman and in the hospital at Steamer Point 1,004 persons were primarily vaccinated and 2 re-vaccinated.

93. A vaccinator was deputed to work in Khelát. He primarily vaccinated 36 and re-vaccinated 18 persons: all the operations were successful. There were 266 persons primarily vaccinated in Muskat, of which 254 or 95·49 per cent. were successful, there was no re-vaccination work. In the Residency dispensary, Bushire, there were 357 persons primarily vaccinated, of which 299 or 83·73 per cent. were successful.

Progress in Khelat, Muskat and Bushire.

94. The places visited, the number of miles travelled, the number of children inspected, the number of villages inspected and the number of days spent in travelling by each Deputy Sanitary Commissioner and Superintendent of Vaccination are given below.

Tour of Deputy Sanitary Commissioners and Superintendents of Vaccination.

(*a*). In the Western Registration District the Deputy Sanitary Commissioner went through the tálukas of Niphád, Sinnar, Chándor, Dindori, Peint, Násik, Málegaon, Yeola, Nándgaon and Igátpuri, of the Násik Collectorate; táluka of Kalyan in the Thána Collectorate; and the tálukas of Chálisgaon, Dhulia, Pimpalner and Nizámpur in the Khándesh Collectorate. He travelled over 1,500 miles in 115 days, visited 121 villages and inspected 3,735 children.

(*b*). In the Central Registration District the Deputy Sanitary Commissioner went through the tálukas of Indápur, Sirúr, Purandhar, Bhimthadi, Haveli and Mával of the Poona Collectorate; the tálukas of Nagar, Jámkhed, Shrigonda, Karjat, Nevása and Shevgaon of the Ahmednagar Zilla; the tálukas of Sholápur, Bársi, Mádha, Karmála, Pandharpur, Sángola and Málsiras of the Sholápur Zilla; and the tálukas of Sátára, Jávli, Wái, Khatáv, Mán, Koregaon, Karád, Válva, Tásgaon and Khánápur of the Sátára Zilla. The Native States that he passed through were Bhor, Akalkot and Aundh. The total number of children inspected was 12,766 in 383 villages. The number of miles travelled was 2,971 in 177 days.

(*c*). The Deputy Sanitary Commissioner of the Southern Registration District passed through the tálukas of Belgaum, Khánápur, Parasgad, Chikodi, Sampgaon and Gokák in the Belgaum Zilla; the tálukas of Dhárwár, Hubli, Bankápur, Gadag, Kalghatgi, Hángal, Karajgi, Ránebennur and Kod of the Dhárwár Zilla; the Bijápur Táluka in the Bijápur Zilla; the tálukas of Supa and Yellápur in the Kánara Collectorate. He also passed through the Native States of Rámdurg, Kurundvád, Lakshmeshvar, Savanúr, Mudhol, Sángli and Jamkhandi. He inspected 7,425 children in 180 villages and the number of miles travelled was 3,312 in 177 days.

(*d*). The Deputy Sanitary Commissioner in the Eastern Gujarát Registration District went through the tálukas of Jalálpor, Bárdoli, Chorási and Mándvi of the Surat District; the tálukas of Mehmadabad, Daskrohi, Paránti] and Modása of the Ahmedabad Collectorate. He also went through the whole of Mahi Kántha and a great portion of the Pálanpur Superintendency. He travelled over 1,343 miles in 119 days and inspected 6,889 children in 292 villages.

(*e*). In the Western Gujarát Circle Dr. Quicke, the Acting Superintendent of Vaccination, travelled from 1st April to 5th May 1889 through Verával, Gondal and Rájkot and inspected the work of vaccinators there. He travelled 432 miles in 10 days, visited 11 villages and inspected 578 children. Dr. Colah took charge of this Circle on the 6th of May 1839 and travelled through Pálanpur Deesa, Dhanera, Tharád, Deodar and Thara. He travelled 337 miles, visited 79 villages and inspected 1,719 children in 33 days.

(*f*). In Sind the Deputy Sanitary Commissioner went through the tálukas of Karáchi, Kotri, Sehwan, Kohistan, Jerruck and Johi in the Karáchi Collectorate; the tálukas of Tando Bago, Badin, Hyderabad, Tando Alahyár, Mirpur Khás, Shahdádpur, Hálla, Sákrand, Moro, Nausharo, and Kandiaro in the Hyderabad Zilla; the tálukas of Dipla, Mitti, Nagar Párkar, Chachra, Umarkot and Khipra in the Thar and Parkár District; and the tálukas of Shikárpur, Sukkur, Rohri, Nausharo, Shahdádpur, Ratodero, Lárkhána, Kambar, Labdarya, Nasirabad, Mehar and Kakar in the Shikárpur Collectorate. He also passed through the Native State of Khairpur. He travelled over 2,516 miles in 105 days and inspected 3,726 children in 160 villages.

Compulsory Vaccination.

95. The Compulsory Vaccination Act (No. I of 1877) has been in force in Bombay city for 12 years and is worked fairly well in the absence of a proper work-shop and implements. The following table shows the progress in the protection of infants during the last 14 years, the first two being before, and the last 12 after, the introduction of the Act :—

| Years. | | Births returned as having been registered. | Deaths registered among children under one year old. | Children available for Vaccination. | | Children under 1 year successfully vaccinated. | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Births *minus* deaths. | At the rate of 31 per 1,000 of population. | Number. | Ratio per 100 on those in column 4. | Ratio per 100 on those in column 5. |
| 1 | | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Before the introduction of the Act. | 1876-77 ... | 13,466 | 6,179 | 7,287 | 19,977 | 9,840 | 135·03 | 49·26 |
| | 1877-78 ... | 13,720 | 7,781 | 5,939 | 19,977 | 7,212 | 121·43 | 36·10 |
| After the introduction of the Act. | 1878-79 ... | 13,896 | 6,417 | 7,479 | 19,977 | 6,558 | 87·69 | 32·83 |
| | 1879-80 ... | 14,331 | 5,274 | 9,067 | 19,977 | 7,825 | 86·30 | 39·17 |
| | 1880-81 ... | 16,997 | 6,104 | 10,893 | 19,977 | 10,416 | 95·62 | 52·14 |
| | 1881-82 ... | 16,381 | 6,279 | 10,102 | 23,969 | 12,017 | 118·96 | 50·14 |
| | 1882-83 ... | 15,094 | 5,720 | 9,374 | 23,969 | 14,940 | 159·38 | 62·23 |
| | 1883-84 ... | 14,932 | 6,514 | 8,418 | 23,969 | 12,331 | 146·48 | 51·45 |
| | 1884-85 ... | 14,377 | 6,340 | 8,037 | 23,969 | 13,449 | 167·34 | 56·11 |
| | 1885-86 ... | 14,685 | 6,265 | 8,420 | 23,969 | 13,547 | 160·89 | 56·52 |
| | 1886-87 ... | 14,679 | 5,899 | 8,780 | 23,969 | 13,270 | 151·14 | 52·01 |
| | 1887-88 ... | 15,166 | 5,903 | 9,263 | 23,969 | 14,588 | 157·50 | 60·86 |
| | 1888-89 ... | 16,470 | 6,582 | 9,888 | 23,969 | 14,201 | 143·62 | 59·25 |
| | 1889-90 ... | 15,240 | 6,527 | 8,713 | 23,969 | 14,179 | 162·73 | 59·16 |

Compulsory vaccination at Karáchi.

96. The Compulsary Vaccination Act (No. IV of 1879) has been in force for 10 years in Karáchi city, and it will be seen from the following table that great improvement has been effected in the number of infants protected :—

| Years. | Births returned as having been registered. | Deaths registered among children under one year old. | Children available for Vaccination. | | Children under 1 year successfully vaccinated. | | |
|---|---|---|---|---|---|---|---|
| | | | Births *minus* deaths. | At the rate of 31 per 1,000 of population. | Number. | Ratio per 100 on those in column 4. | Ratio per 100 on those in column 5. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1880-81 ... ... ... | 1,878 | 309 | 1,569 | 2,118 | 1,917 | 122·18 | 90·51 |
| 1881-82 ... ... ... | 2,405 | 489 | 1,916 | 2,118 | 2,516 | 131·32 | 118·79 |
| 1882-83 ... ... ... | 2,985 | 514 | 2,471 | 2,118 | 2,827 | 114·41 | 133·47 |
| 1883-84 ... ... ... | 3,273 | 728 | 2,545 | 2,118 | 2,683 | 105·42 | 126·68 |
| 1884-85 ... ... ... | 3,189 | 706 | 2,483 | 2,118 | 3,003 | 120·94 | 141·78 |
| 1885-86 ... ... ... | 3,056 | 635 | 2,421 | 2,218 | 3,084 | 127·39 | 145·68 |
| 1886-87 ... ... ... | 3,340 | 841 | 2,499 | 2,118 | 3,015 | 120·65 | 142·35 |
| 1887-88 ... ... ... | 3,690 | 959 | 2,731 | 2,118 | 3,175 | 116·26 | 149·90 |
| 1888-89 ... ... ... | 3,722 | 935 | 2,787 | 2,118 | 3,647 | 130·86 | 172·19 |
| 1889-90 ... ... ... | 3,798 | 1,081 | 2,717 | 2,118 | 3,246 | 119·47 | 153·26 |

Suggestions for the more effectual spread of Vaccination.

97. Dr. Channer in his annual report makes the following remarks :—"During the year I impressed on the municipal commissioners of Gadag the desirability of introducing animal vaccination in the Gadag-Bettigeri towns, and I am glad to report they have sanctioned Rs. 300 for the purpose. There will now be 3 animal vaccine stations in the Dhárwár Collectorate, *viz.*, Dhárwár, Hubli and Gadag. The Belgaum Municipality still, however, withhold their sanction, although I personally, during my tour, addressed them on the subject. They refused to provide any fund, mainly on the grounds that the choice and purchase of heifers should be in the hands of the Municipality. This difficulty, which is really only a matter of detail, I hope to overcome in time.

"There is only one Inspector of Vaccination in the Dhárwár Collectorate and he is unable to efficiently supervise the work of his large establishment, *viz.*, 19 local fund vaccinators, 2 candidate vaccinators and 3 municipal vaccinators, and with three animal vaccine stations it is impossible for him to supervise them also. It would be wrong I consider to further develop animal vaccination in this district until provision is made for proper supervision. The vaccinators are too inexperienced to carry on the work alone, and as there are only four inspectors for the district, excluding Native States, I trust the question will receive the attention it requires.

"Vaccination laws are required in at least municipal towns. The Hubli Municipality applied for the necessary powers during the year, but were refused by Government. It is only right, however, to point out from a medical point of view the necessity for such laws. In Belgaum, where vaccination is permitted to be carried on without system or method, the troops in cantonments have been several times, during the last 10 years, menaced by the presence of small-pox in the Belgaum Bazar. Fortunately the well protected state of the garrison has saved them from attack.

"An animal vaccine depôt is urgently required in the Kánara Collectorate The quality of the present lymph stock in that district is worse than in any other. Under proper supervision it would be no difficult matter to form depôts at one or more of the populous coast towns—Honávar, Kumta or Kárwár.

"The proper age period for vaccination is for all robust healthy children within 3 months of birth; but in this district, since the time for vaccination is entirely a matter for parents to decide, many childern have their primary vaccination postponed until 1 and 2 years of age and often later, which accounts for many of the cases of failure and injury to the vesicles from the nails of the children who so often scratch the vesicles and produce ulcerations.

"The question of the maintenance of the lymph supply in sufficient quantity and of good protective quality is of the greatest importance. Excluding Kánara, probably not more than 50 per cent. of persons get well vaccinated in this district. As long as the collection of children for vaccination is left to the zeal and intelligence of local authorities, and willingness or otherwise of parents, and so long as vaccinators are dependent on the willingness of parents for selection and choice of lymph, the quality of lymph must remain exposed to the many dangers it now undoubtedly so often suffers, for respectable parents hardly ever permit lymph to be taken from the arms of their children and vaccinators are driven to obtain it from poorer classes, and even these people frequently hide their children or destroy the vesicles.

"Again, owing to the non-compulsory system of vaccination under which the vaccinators work, lymph becomes degenerated from the continuous vaccination of too few cases. Thus I have found vaccinators maintaining an average of four or five vaccinations and selecting their lymph from these few cases. Having no choice of selection a lymph of inferior quality is soon developed with corresponding inferior protection from small-pox. Seaton has truly remarked that the vaccine virus cannot be maintained of good quality and in sufficient quantity amongst large populations unless the choice and selection of lymph be guaranteed from at least an average of 10 to 15 cases. This average is a very low one and applies to England where the children are strong and robust. In this district my experience teaches the average should be at least 20 cases. If it is desired to lessen the present difficulties of lymph supply, either animal vaccination should be widely introduced or compulsory laws passed.

"The vaccination establishment of the district is below its proper strength. During the year 3 inspectors have been sanctioned for the Southern Marátha Native States, 1 candidate vaccinator for Sángli State, and 1 new vaccinator for Koochi in Sángli State. An additional candidate vaccinator was recommended for these States but was not sanctioned. The establishment for Kolhápur and the Southern Marátha Native States is, I think, now sufficient.

"For the four collectorates of this circle comprising 34 tálukas and 58 vaccinators and 5 candidate vaccinators there are only 4 Inspectors—one 1st

class, one 2nd class, and two 3rd class. Vaccination in most cases requires to be inspected twice annually, and I trust steps will be taken to provide at least an additional 2nd class inspector for Dhárwár and Kánara.

"The Dhárwár District Board have sanctioned two new 2nd grade vaccinators and one candidate vaccinator and increased the pay of the present candidate vaccinator to Rs. 10 per mensem and the number of vaccinators for the collectorate is now sufficient.

"The District Local Boards of Bijápur, Kánara and Belgaum were asked to bring up the vaccination establishment of their districts to a proper strength and the question is still under correspondence.

"The pay of municipal vaccinators when holding additional charge of táluka villages surrounding municipal towns should be never less than Rs. 24 per mensem. The contribution from municipal and local funds should be arranged according to the work performed.

"Acting on the principles of the Local Government Board, England, in giving rewards to public vaccinators, I in 1884 recommended that similar rewards should be given in this Circle. In two collectorates they were sanctioned from local funds and yearly two prizes of Rs. 15 and Rs. 10 are given to the most deserving vaccinators in each collectorate. I generally take the recommendation of the inspectors in distributing the prizes and I consider there is no reason to suppose but that the best men get them.

"Re-vaccination work remains backward throughout the district. Although great efforts were made during the year and many letters were sent out from this office on the subject, only an increase of 13,765 operations were performed over last year. The people object to re-vaccination. I have tried to get the vaccinators to push forward the work in the schools but have not been very successful. It should be made a rule that all school children of 10 years of age should be re-vaccinated and that all school children bearing bad and imperfect marks of their primary vaccination should be re-vaccinated whenever the vaccinator attends the school. The vaccinator should be obliged to attend all the schools within his charge at least once annually. At present one of the chief reasons why re-vaccination is not performed in the schools is the fear of the school-master that the parents will forbid their children attending the school if re-vaccination is attempted. Frequently also there is friction between the school-master and vaccinator who each considers himself superior in position to the other.

"Vaccination is carried out in 7 towns of Native States by the dispensary medical officers. The amount of work was insufficient and re-vaccination work practically neglected. Efforts will be made to improve the work, but it would be better if professional vaccinators were appointed and the medical officers relieved. In the large town of Sháhápur this procedure was suggested, but the Sángli State were unwilling to change. Practically much of the work is left to the compounders.

"The districts in charge of the Deputy Sanitary Commissioner are too large and cannot be properly supervised. The Kolhápur Native State and the large number of States comprised under the Southern Marátha States, together with the independent States of Jath, Daphlápur and Savanúr, should be placed under a separate Deputy Sanitary Commissioner. The officer might be appointed from the Bombay Medical Establishment or obtained direct from England; if the latter, he should possess a certificate or diploma in Public Health. In addition to the vaccination of these States the inspection of the dispensaries and sanitation should be placed under his charge.

"All the vaccinators have been supplied with maps of their tálukas with the exception of the Sirsi and Mundgod vaccinators of Kánara. The maps of these tálukas have not been as yet published, but as the survey has been completed, they will shortly be supplied.

"In the monthly vaccination returns the number of insertions and resulting vesicles are given by the vaccinators, but in their annual reports no percentage of the results is given. The "percentage insertion success rate" should, I consider, be furnished annually by each vaccinator. Similarly for annual vaccination

where carried out. In the reports on the operations of the animal vaccine stations at Lamb's Conduit Street, London, the insertion success rate by each medical officer is always reported.

"The percentage of success in vaccination was for the whole district 94·06; but as this shows nothing regarding the degree of success, the statement is somewhat misleading, and it appears to me the percentage insertion success rate would be of more value. The percentage success was good in all establishments except dispensaries. Excluding Mudhol and Indi, where very little work was performed, the percentage success was in Sángli 88·52, Sháhápur 75·09, Shirhatti 84·76, Mangalvedha 87·50, Kavatha 89·86. Only in one dispensary, Terdal, was the percentage success good—95·29. To me the cause of such work is clear. Vaccinations are carried on from too few cases with no choice of selection of lymph, and the work is spread over too large a number of operation days in relation to the children available for vaccination. This was well exemplified in the town of Shirhatti where I found the dispensary medical officer had been systematically keeping up 3 or 4 vaccinations and had degenerated his lymph in consequence.

"With regard to testing of vaccination by the Deputy Sanitary Commissioner and Inspectors, I think some more scientific method should be employed, and the test should be uniform for the Presidency, and, in fact, the whole of India. The system at present in force is to divide the vaccinations into 3 classes—good, middling, bad—columns 9, 10, 11, Form V, No. XI, English. This presents the degree of protection estimated by the Inspecting officer after careful examination of the number and character of cicatrices found on the arms of the children. It would be better, I consider, to divide the results into two classes—'good' and 'imperfect',—and no vaccination should be returned as 'good' unless it had the following characters:—4 or more cicatrices of at least ½ square inch collective area of cicatrisation—each cicatrix typical with clear defined borders, well-foveated and radiating depressed surface showing that the substance of the skin had been well indented. Results other than these I would place in the "imperfect" class. Middling vaccination is imperfect vaccination and the subject is unsafe—the patient should understand this and the register should show it."

98. Dr. Colah, in charge office of Superintendent of Vaccination, Western Gujarát Circle, remarks that "in former years when necessity existed for a reduction of expenditure in all public departments a minute inquiry was made as to the possible reduction in the Sanitary Department, and it was then fully demonstrated that there was no possibility of a reduction being made in the supervising establishment. The late Dr. Hewlett was able to satisfy Government that if effectual supervision was desired then the sanctioned establishment was much below par. The deputies had such extensive charges that they were hardly able to look properly after their work. Last year financial reasons compelled Government to order a reduction in the medical expenditure of the Presidency and the reduction of a Superintendent was determined upon. I have held charge of the Western Gujarát Circle for nearly 11 months of the year and from correspondence that passes through me daily and from the reports of the Assistant Superintendents it appears to me quite clear that there is so much work to do in the Western Gujarát Circle that a full time officer is very badly wanted for this division."

99. With regard to the preservation and storage of bovine lymph, Dr. Kantak's remarks are worth noticing. He says that "during the year under report various experiments for preserving and storing bovine lymph were made in accordance with the directions given in the pamphlet on animal vaccination published under the orders of the Government of India by Surgeon-Major Barclay. In the absence of a decent and properly equipped depôt with the apparatus and appliances requisite for the efficient performance of delicate operations in antisepsis, the experiments were, as a matter of course, crude. Some of the lymph preserved at the outset gave encouraging results, the proportion of success being 50 per cent.; and although the same good luck has not attended later experiments, I have hopes that with the necessary appliances for sterilizing purposes, the use of preserved lymph will become more successful and extended. Most of the antiseptic processes advocated by Surgeon-Major Barclay

in connection with calf inoculation had been introduced by me long before the appearance of the pamphlet. The introduction of steel handled scalpels here is, however, due to Surgeon-Major Barclay's book; they are handy and capable of being kept thoroughly clean; and I hope they will before long be in general use, replacing the present wood-handled scalpels. The use of scrapings of the solid parts of the vesicles in the preparation of preserved lymph adopted in Germany and recommended by Surgeon-Major Barclay on economical grounds is, I think, unsuitable and ill-adapted to the conditions of this country, not only on account of the rapidity with which decomposition sets in here in organic tissues, but also on account of the prejudices it will create against animal vaccination. Further, the inoculated calves being returned to the contractor in this country, and not slaughtered as in Germany, the opportunity for ascertaining the condition of their health is totally wanting here. The proper preservation of lymph and its successful use in the field of operation is destined, however, to mark an important epoch in the annals of vaccination in this country, for when it becomes an accomplished fact, the chief objection to the spread of animal vaccination here will have been overcome; for looking at the figures given in the above pamphlet it must be conceded that, despite the unsuitability of some of the German processes to this country, the expenditure on animal vaccination, as at present carried on here, can be so materially reduced as to make it acceptable to mofussil Municipalities and Local Boards."

100. The following remarks are meant as a warning against discontinuing the practice of arm-to-arm vaccination, especially in the outlying villages of districts in this country. In his report, circulated for guidance and information* by the Government of India, Dr. Barclay describes the system of carrying out animal vaccination practised in London, Brussels and Germany, but which from his account is a system in which both humanized and animal vaccine lymph are conjointly used.

*In G. R. in the General Department, No. 3133, dated 6th August 1889.

That "animal vaccination" does not exclude the use of human lymph is clear from more than one remark throughout the report, *e.g.* "with regard to the lymph to be inserted (in the calf) it is no doubt best to use human lymph, for experience in Germany has shown that calf-lymph after the second to the fourth generation certainly degenerates." Again, at page 10: "I will explain the most important rules in force in Germany with regard to the collection of human lymph, as a supply of this is essentially necessary for the proper cultivation of animal lymph." Read in the light of these statements, the directions given in the second paragraph of the letter from the Secretary to the Government of India are not altogether clear.

The Sanitary Commissioner is urged to arrange for the provision with "as little delay as possible of such a supply of animal lymph as will enable provincial vaccine establishments to dispense with lymph obtained from the human subject." Yet it is laid down in the report furnished for guidance that a supply of human lymph is "essentially necessary" for the proper cultivation of animal lymph. It is probably intended that human lymph shall be used for the inoculation of calves and not for the vaccination of human beings. Even in this restricted sense, it will be necessary to obtain lymph from a considerable number of human beings for the purpose of keeping up animal vaccination.

101. It may here be remarked that the process of passing human lymph through an animal is not strictly speaking "animal vaccination" but retro-vaccination. This has been repeatedly practised, and the process is simple, but the results possess no recognizable superiority or advantage whatever over ordinary humanized vaccine lymph. There is no novelty in the system, and it lacks the simplicity of the arm-to-arm system in force in Great Britain and India. By carrying out animal vaccination at the head-quarters of Deputy Sanitary Commissioners and the larger municipal towns, the wishes of the Government of India, as expressed in paragraph 2 of their letter, could to a certain extent be given effect to.

Dispensing with human lymph would involve an expenditure out of all proportion to the benefit, if any, that would result from the complete substitu-

tion of animal for human lymph. In Bombay city, where only animal lymph is used, the cost of each successful case was Rs. 1-1-10. If animal vaccination be carried out in the districts with a widely dispersed population often of difficult access owing to creeks, hills and rivers, the cost per case would be even greater than in the city of Bombay, where the population is concentrated. Taking the cost in Bombay as applicable to the Presidency and Sind, the annual expenditure consequent on the adoption of this system would at least amount to three times the present cost.

102. Supposing that the money were available, the question should first be considered whether the introduction of the method adopted on the Continent of Europe and recommended to be followed in India would be unattended by risk to the growing appreciation by the people of the benefits of vaccination as now practised. The existing arm-to-arm system, which is identical with that practised in England and Scotland, has resulted in the protection against small-pox of a number of persons almost equal to the number of children annually born excluding those dying within the first year of life and those unfitted from sickness or other cause for vaccination.

It is surely not asking too much that a system, which has attained such popularity and accomplished such results at a cost of about a third of that likely to be incurred by the introduction of the new system, should not be set aside until the latter has been clearly demonstrated to be superior in principle and practice and equally acceptable to the people.

103. Dr. Barclay continues: "On the following day, the animal affording the lymph on the previous day is again tied to the table, and the whole of the lymph removed. The animal is then killed and examined *post mortem* as to its soundness, and, if sound, the lymph is used and the flesh sold in the public market as quite wholesome." Comment on such proceedings amongst a community composed mainly of Hindus is unnecessary. The report proceeds: "The thick scrapings and the exuding lymph are all placed together in a stone mortar and well rubbed with the gradual addition later of little powdered sugar of milk and lastly a third or a half of the volume of the mass in the mortar of pure glycerine is gradually added under constant rubbing converting the whole into a thin pultaceous or syrupy fluid. This syrupy mass is then passed through a fine metallic sieve by pressure with bone spatulas in order to remove any shreds of tissue which may not have been broken up during triturition."

After reading this description of the "thin pultaceous fluid" to be employed in vaccination, it is not difficult to understand that in London "the prejudice of the people forbids the admixture of any foreign substance with the lymph." Those who know the people of India are not likely to believe that their prejudices against such admixture will be less than those of the people of London. Continuing, Dr. Barclay says: "If the thin pultaceous or syrupy fluid" is then put into small glass tubes of various sizes but mostly 2 to 3 C. M. long and 3 to 8 M. M. in diameter, *i.e.* $\frac{3}{4}$ to $1\frac{1}{4}$ inches long and $\frac{1}{10}$ to $\frac{3}{10}$ inches in diameter, which are corked with fresh corks and having been inverted the corked ends are dipped into melted paraffin to secure efficient closure. Both tubes and plagues of glass are then wrapped in tin foil to protect the lymph material from light and stored in an ice-box on trays *over* the ice until required for transmission by post to the vaccinators."

104. Probably some difficulty would be found in carrying out with precision the delicate and complicated process described. It is at all events certain that the manipulations could not be entrusted to the present members of the vaccine establishment who are almost altogether devoid of scientific knowledge and training.

The procedure may be simple enough in a country like Germany, where the requisite agencies for carrying it out are available in abundance; but in this country it would be very much otherwise and disaster might not infrequently be the result. Even after the despatch of the fluid by post the risks to which it would be subjected by delay and exposure would only be commencing.

105. Doctor Barclay allows that "when pure lymph is used, a large absorbing area is unnecessary either in the vaccination of human beings or animals,

but when diluted lymph is used this is necessary in both cases." In other words, the system, which it is proposed to introduce necessitates a more extensive scarification of the skin of those operated upon than at present. Most of those who have operated on native children will be inclined to believe that this necessity for a more severe operation will not help to recommend the new procedure to the people.

106. But even if the operation on human beings is necessarily more severe as a consequence of diluted and not pure lymph being used, that on the calves approaches the verge of cruelty. "Calves in all provinces have always been hired, and it would have to be ascertained whether they are as readily to be bought; for if the economical system of vaccinating these animals by scarification be resorted to, it would be necessary to kill the calf after the lymph has been gathered, not only because it is desirable to ascertain by *post mortem* examination that the animal was perfectly healthy, but also because a very extensive wound is made from which the animal would recover with difficulty and after a painful time." It would not be easy to suggest a procedure better calculated to set the people of this country against vaccination than the one described.

Further inquiry is necessary before Government is finally committed to a scheme, which most men practically acquainted with vaccination in this country cannot but regard with misgivings.

C. W. MacRURY, D.P.H., Camb.,
Sanitary Commissioner.

*16th June 1890.*

# APPENDIX.

## A.—VACCINE DEPARTMENT.

Statement No. I, showing Particulars of Vaccination in the Bombay Presidency during the year 1889-90.

| Number. | Circles and Districts. | Population of Districts according to Census of 1881. | Average Population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator | Primary Vaccination. | | | | Re-vaccinations. | | Percentage of Successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all Ages. | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | THE WESTERN REGISTRATION DISTRICT. | | | | Males. | Females. | Total. | | | | | | | | | | | | | | |
| | KHÁNDESH COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 1 | Nandurbár Town, Local Fund. | 6,841 | 14,993·97 | ... | 13 | 22 | 35 | 35 | 35 | 22 | 13 | 35 | ... | ... | 100· | ... | 5·12 | ·27 | 3·95 | 4 | 0·58 |
| 2 | Dhulia Town ... ... ... | 18,449 | 10,023·23 | 1 | 493 | 481 | 974 | 974 | 981 | 810 | 111 | 954 | ... | ... | 97·95 | ... | 51·71 | 938 | 50·84 | 5 | 0·27 |
| 3 | Chopda Town, Local Fund ... | 13,932 | 29,234·36 | ... | 182 | 176 | 358 | 358 | 358 | 245 | 111 | 356 | ... | ... | 99·44 | ... | 25·55 | 499 | 35·81 | 12 | 0·86 |
| 4 | Nasirabad Town do. ... | 10,243 | 61,266·54 | 1 | P. 232<br>R. 5 | 184<br>... | 416<br>5 | 421 | 416 | 224 | 166 | 398 | 5 | 5 | 95·67 | 100· | 39·34 | 329 | 32·12 | 2 | 0·20 |
| 5 | In the 22 Rural Circles, Local Fund ... .. .. ... | 1,187,766 | 119·49 | 24 | P. 19,511<br>R. 133 | 19,319<br>60 | 38,830<br>193 | 1,626 | 38,913 | 26,804 | 9,667 | 36,620 | 193 | 87 | 94·31 | 45·08 | 30·90 | 35,167 | 29·61 | 651 | 0·55 |
| | Total ... | 1,237,231 | 124·43 | 26 | P. 20,431<br>R. 138 | 20,182<br>60 | 40,613<br>198 | 1,570 | 40,703 | 28,105 | 10,068 | 38,363 | 198 | 92 | 94·46 | 46·46 | 31·08 | 36,960 | 29·87 | 674 | 0·54 |
| | NÁSIK COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 6 | Yeola Town ... ... ... | 17,685 | 80,845·71 | 1 | P. 350<br>R. 10 | 350<br>2 | 700<br>12 | 712 | 700 | 524 | 75 | 599 | 12 | 5 | 85·57 | 41·67 | 34·15 | 141 | 7·97 | 20 | 1·13 |
| 7 | Násik do. ... ... ... | 24,101 | 48,528·85 | 1 | P. 445<br>R. 25 | 484<br>... | 929<br>25 | 954 | 929 | 676 | 246 | 922 | 25 | 11 | 99·25 | 44·00 | 38·71 | 819 | 33·98 | 7 | 0·29 |
| 8 | Devláli Cantonment ... ... | 2,969 | | 1 | 16 | 32 | 48 | 48 | 48 | 43 | 2 | 45 | ... | ... | 93·75 | ... | 15·16 | 58 | 19·54 | ... | ... |
| 9 | Málegaon ... Cantonment | 3,780 | ... | 1 | P. 132<br>R. 16 | 72<br>2 | 204<br>18 | 222 | 204 | 187 | 11 | 198 | 18 | 15 | 97·06 | 83·33 | 56·35 | 194 | 51·32 | 2 | 0·53 |
| | Municipal ... | | | | 146 | 115 | 261 | 261 | 261 | 200 | 45 | 245 | ... | ... | 93·87 | ... | 64·81 | | | | |
| 10 | In the 12 Rural Circles ... Local Fund | 732,671 | 123·36 | 12 | P. 10,100<br>R. 92 | 9,845<br>41 | 19,945<br>133 | 1,687 | 19,962 | 13,018 | 5,459 | 18,610 | 133 | 70 | 93·31 | 52·63 | 25·50 | 18,460 | 25·28 | 290 | 0·40 |
| | Municipal ... | | | | 83 | 85 | 168 | 168 | 168 | 155 | 12 | 167 | ... | ... | 99·40 | ... | 0·23 | | | | |
| | Total ... | 781,206 | 131·52 | 15 | P. 11,272<br>R. 143 | 10,983<br>45 | 22,255<br>188 | 1,496 | 22,272 | 14,803 | 5,350 | 20,786 | 188 | 101 | 93·40 | 53·72 | 26·74 | 19,672 | 25·18 | 319 | 0·41 |
| | THÁNA COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 11 | Kalyán Town ... ... ... | 12,910 | 5,164· | 1 | P. 120<br>R. 1 | 116<br>3 | 236<br>4 | 240 | 236 | 113 | 83 | 196 | 4 | ... | 83·05 | ... | 15·18 | 469 | 36·33 | 2 | 0·15 |
| 12 | Bhivandi Town... ... ... | 13,837 | | ... | 58 | 51 | 109 | 109 | 109 | 45 | 50 | 95 | ... | ... | 87·16 | ... | 6·87 | ... | ... | ... | ... |
| 13 | Thána do. ... ... .. | 14,456 | 2,069·76 | 1 | P. 313<br>R. 95 | 301<br>37 | 614<br>132 | 746 | 614 | 575 | ... | 614 | 132 | 17 | 100· | 12·88 | 43·65 | 599 | 41·44 | 3 | 0·21 |
| 14 | Bándora Town. Local Fund | 14,987 | ... | 1 | P. 138<br>R. 62 | 102<br>40 | 240<br>102 | 342 | 240 | 140 | 89 | 229 | 102 | 35 | 95·42 | 34·31 | 2·34 | ... | ... | ... | ... |
| | Municipal ... | | | | P. 82<br>R. 18 | 69<br>28 | 151<br>46 | 197 | 151 | 80 | 59 | 140 | 46 | 13 | 92·72 | 28·26 | 0·87 | | | | |
| 15 | In the 10 Rural Circles ... Local Fund | 751,177 | 198·65 | 12 | P. 11,123<br>R. 150 | 10,855<br>82 | 21,978<br>232 | 1,851 | 21,993 | 10,519 | 10,269 | 21,470 | 232 | 118 | 97·69 | 50·86 | 28·74 | 17,894 | 22·94 | 196 | 0·25 |
| | Municipal ... | | | ... | P. 390<br>R. ... | 400<br>2 | 790<br>2 | 792 | 790 | 568 | 200 | 770 | 2 | ... | 97·47 | 100· | 1·03 | | | | |
| | Total ... | 807,367 | 205·12 | 15 | P. 12,224<br>R. 326 | 11,894<br>192 | 24,118<br>518 | 1,642 | 24,133 | 12,040 | 10,750 | 23,514 | 518 | 183 | 97·50 | 35·33 | 29·35 | 18,962 | 23·49 | 201 | 0·27 |

## Statement No. I., showing Particulars of Vaccination, &c.—*continued.*

| Number. | Circles and Districts. | Population of Districts according to Census of 1881. | Average Population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator | Primary Vaccinations. | | | | Re-vaccinations. | | Percentage of Successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all Ages. | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | THE WESTERN REGISTRATION DISTRICT—*contd.* | | | | Males. | Females. | Total. | | | | | | | | | | | | | | |
| | KOLA'BA COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 16 | Mahád Town, Local Fund ... | 6,804 | 15,892·55 | ... | P. 36 | 27 | 63 | 72 | 63 | 50 | 13 | 63 | 9 | 2 | 100· | 22·22 | 9·55 | 88 | 12·93 | 8 | 1·18 |
| | | | | | R. 8 | 1 | 9 | | | | | | | | | | | | | | |
| 17 | Panvel do. Local Fund... | 10,351 | 3,450·33 | 1 | P. 27 | 14 | 41 | 48 | 41 | 35 | 6 | 41 | 7 | 7 | 100· | 100· | 4·64 | 286 | 27·63 | 6 | 0·58 |
| | | | | | R. 7 | ... | 7 | | | | | | | | | | | | | | |
| | Municipal ... | | | | P. 132 | 122 | 254 | 268 | 254 | 179 | 61 | 240 | 14 | 13 | 94·49 | 92·86 | 24·44 | | | | |
| | | | | | R. 9 | 5 | 14 | | | | | | | | | | | | | | |
| 18 | Uran do. Local Fund... | 10,149 | 1,793·31 | | P. 47 | 38 | 85 | | 85 | 40 | 38 | 78 | 9 | 3 | 91·76 | 33·33 | 7·98 | 104 | 10·25 | ... | .. |
| | Municipal ... | | | | R. 6 | 3 | 9 | | | | | | | | | | | | | | |
| | | | | | P. 64 | 53 | 117 | | 117 | 29 | 80 | 116 | 3 | 1 | 99·15 | 33·33 | 11·53 | | | | |
| 19 | Pen do. ... ... | 8,082 | 52,247·27 | 1 | R. 2 | 1 | 3 | 568 | | | | | | | | | | 126 | 15·26 | ... | ... |
| | | | | | P. 116 | 100 | 216 | | 216 | 163 | 40 | 204 | 46 | 30 | 94·44 | 65·22 | 28·95 | | | | |
| | | | | | R. 38 | 8 | 46 | | | | | | | | | | | | | | |
| 20 | Alibág do. ..... | 6,376 | 10,544·29 | | P. 38 | 31 | 69 | | 69 | 49 | 13 | 62 | 23 | 13 | 89·86 | 56·52 | 11·76 | 97 | 15·21 | 8 | 1·25 |
| | | | | | R. 14 | 9 | 23 | | | | | | | | | | | | | | |
| 21 | In the 7 Rural Circles. Local Fund.. | 441,068 | 245·39 | 11 | P. 6,210 | 6,055 | 12,265 | 1,232 | 12,266 | 10,160 | 1,855 | 12,101 | 1,285 | 699 | 98·66 | 54·39 | 29·02 | 14,040 | 31·83 | 133 | 0·31 |
| | | | | | R. 595 | 690 | 1,285 | | | | | | | | | | | | | | |
| | Municipal ... | | | ... | P. 41 | 44 | 85 | 91 | 85 | 63 | 11 | 74 | 6 | 1 | 87·06 | 16·67 | 0·17 | | | | |
| | | | | | R. 3 | 3 | 6 | | | | | | | | | | | | | | |
| | Total .. | 482,830 | 267·76 | 13 | P. 6,711 | 6,484 | 13,195 | 1,123 | 13,196 | 10,768 | 2,117 | 12,979 | 1,402 | 769 | 98·36 | 54·85 | 28·47 | 14,741 | 30·53 | 155 | 0·32 |
| | | | | | R. 682 | 720 | 1,402 | | | | | | | | | | | | | | |
| | NATIVE STATES— | | | | | | | | | | | | | | | | | | | | |
| 22 | Mewás State ... ... ... | 21,542 | ... | 1 | P. 499 | 443 | 942 | 947 | 942 | 162 | 500 | 900 | 5 | 5 | 95·54 | 100· | 42·01 | ... | ... | ... | ... |
| | | | | | R. 2 | 3 | 5 | | | | | | | | | | | | | | |
| 23 | Dáng Teritory ... ... ... | 60,270 | 15·70 | ... | ..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 605 | 10·04 | ... | ... |
| 24 | Jawhár ... ... ... ... | 48,556 | 90·93 | 1 | P. 842 | 828 | 1,670 | 1,683 | 1,670 | 1,247 | 386 | 1,669 | 13 | 13 | 99·94 | 100· | 34·64 | 1,513 | 31·16 | ... | ... |
| | | | | | R. 8 | 5 | 13 | | | | | | | | | | | | | | |
| 25 | Janjira ... ... ... ... | 76,361 | 234·96 | 2 | P. 1,132 | 1,148 | 2,280 | 1,144 | 2,280 | 1,689 | 534 | 2,263 | 9 | 9 | 99·25 | 100· | 29·75 | 2,391 | 31·31 | ... | ... |
| | | | | | R. 6 | 3 | 9 | | | | | | | | | | | | | | |
| | TOTALS BY ESTABLISHMENTS IN WESTERN REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | | |
| | Cantonment ... ... ... | 2,969 | ... | 1 | P. 148 | 104 | 252 | 270 | 252 | 230 | 18 | 243 | 18 | 15 | 96·43 | 83·33 | 86·89 | 107 | 36·04 | ... | ... |
| | | | | | R. 16 | 2 | 18 | | | | | | | | | | | | | | |
| | Municipal ... ... ... | 133,698 | 4,923·30 | 8 | P. 3,009 | 2,904 | 5,913 | 791 | 5,920 | 4,369 | 1,175 | 5,627 | 415 | 139 | 95·16 | 33·49 | 43·13 | 4,354 | 41·52 | 57 | 0·54 |
| | | | | | R. 277 | 138 | 415 | | | | | | | | | | | | | | |
| | Local Fund ... ... ... | 3,171,967 | 148·59 | 60 | P. 47,481 | 46,535 | 94,016 | 1,598 | 94,132 | 61,117 | 27,597 | 89,772 | 1,873 | 991 | 95·49 | 52·91 | 28·61 | 86,132 | 26·91 | 1,292 | 0·40 |
| | | | | | R. 997 | 876 | 1,873 | | | | | | | | | | | | | | |
| | Native state ... ... ... | 185,187 | 39·41 | 4 | P. 2,473 | 2,419 | 4,892 | 1,230 | 4,892 | 3,098 | 1,420 | 4,832 | 27 | 27 | 98·77 | 100· | 26·24 | 4,245 | 22·92 | ... | ... |
| | | | | | R. 16 | 11 | 27 | | | | | | | | | | | | | | |
| | Grand Total ... | 3,493,821 | 132·74 | 73 | P. 53,111 | 51,962 | 1,05,073 | 1,471 | 105,196 | 68,814 | 30,205 | 1,00,474 | 2,333 | 1,172 | 95·62 | 50·24 | 29·09 | 94,838 | 27·15 | 1,349 | 0·39 |
| | | | | | R. 1,306 | 1,027 | 2,333 | | | | | | | | | | | | | | |
| | THE PRESIDENCY CIRCLE. | | | | | | | | | | | | | | | | | | | | |
| 26 | Bombay City (Municipal) ... | 773,196 | 35,145·27 | 8 | P. 10,189 | 9,448 | 19,637 | 2,930 | 19,726 | 14,179 | 2,933 | 18,004 | 3,804 | 654 | 91·68 | 17·19 | 24·13 | 17,785 | 23·00 | 169 | 0·22 |
| | | | | | R. 3,040 | 764 | 3,804 | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **THE CENTRAL REGISTRATION DISTRICT.** | | | | | | | | | | | | | | | | | | | | |
| | AHMEDNAGAR COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 27 | Ahmednagar Town ... ... | 32,903 | 75,693·63 | 1 | P. 756 | 676 | 1,432 | 1,543 | 1,432 | 1,101 | 253 | 1,372 | 111 | 79 | 95·81 | 71·17 | 44·10 | 1,368 | 41·58 | 21 | 0·64 |
| | | | | | R. 43 | 68 | 111 | | | | | | | | | | | | | | |
| 28 | Do. Cantonment ... | 4,589 | | | P. 79 | 79 | 158 | 179 | 158 | 122 | 27 | 150 | 21 | 16 | 94·94 | 76·19 | 36·17 | 115 | 25·66 | 1 | 0·22 |
| | | | | | R. 20 | 1 | 21 | | | | | | | | | | | | | | |
| 29 | Sangamner Town, Local Fund. | 8,796 | 14,814·32 | ... | P. 182 | 191 | 373 | 383 | 373 | 239 | 126 | 369 | 10 | 9 | 98·93 | 90·00 | 42·97 | 358 | 40·70 | 2 | 0·23 |
| | | | | | R. 8 | 2 | 10 | | | | | | | | | | | | | | |
| 30 | In the 11 Rural Circles, Local Fund ... ... ... ... | 7,04,940 | 105·76 | 14 | P. 14,177 | 14,061 | 28,238 | 2,030 | 28,276 | 22,877 | 3,599 | 26,521 | 176 | 96 | 93·92 | 54·55 | 37·76 | 27,854 | 39·51 | 78 | 0·11 |
| | | | | | R. 160 | 16 | 176 | | | | | | | | | | | | | | |
| | Total ... | 7,51,228 | 112·69 | 15 | P. 15,194 | 15,007 | 30,201 | 2,035 | 30,239 | 24,339 | 4,005 | 28,412 | 318 | 200 | 94·08 | 62·89 | 38·09 | 29,695 | 39·53 | 102 | 0·14 |
| | | | | | R. 231 | 87 | 318 | | | | | | | | | | | | | | |
| | POONA COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 31 | Poona City ... ... ... | 99,622 | 19,924·40 | 2 | P. 1,676 | 1,502 | 3,178 | 2,002 | 3,178 | 1,721 | 1,227 | 2,979 | 827 | 357 | 93·74 | 43·17 | 33·48 | 3,257 | 32·69 | 103 | 1·03 |
| | | | | | R. 773 | 54 | 827 | | | | | | | | | | | | | | |
| 32 | Poona and Kirkee Cantonments | 37,381 | 4,255·40 | 1 | P. 1,031 | 740 | 1,771 | 2,187 | 1,771 | 1,241 | 489 | 1,742 | 416 | 260 | 98·36 | 62·50 | 53·56 | 1,938 | 51·84 | 6 | 0·16 |
| | | | | | R. 391 | 25 | 416 | | | | | | | | | | | | | | |
| 33 | Junnar Town, Local Fund ... | 10,373 | 28,492·36 | ... | P. 155 | 167 | 322 | 323 | 322 | 206 | 110 | 319 | 1 | 1 | 90·07 | 100· | 30·85 | 362 | 34·89 | ... | .... |
| | | | | | R. 1 | ... | 1 | | | | | | | | | | | | | | |
| 34 | In the 8 Rural Circles, Local Fund ... ... ... ... | 753,245 | 141·23 | 14 | P. 14,097 | 13,452 | 27,549 | 1,977 | 27,560 | 17,970 | 7,587 | 25,713 | 132 | 93 | 93·34 | 70·45 | 34·26 | 22,655 | 30·68 | 158 | 0·21 |
| | | | | | R. 106 | 26 | 132 | | | | | | | | | | | | | | |
| | Total ... | 900,621 | 168·41 | 17 | P. 16,959 | 15,861 | 32,820 | 2,012 | 32,831 | 21,138 | 9,413 | 30,753 | 1,376 | 711 | 93·70 | 51·67 | 34·94 | 28,212 | 31·32 | 267 | 0·30 |
| | | | | | R. 1,271 | 105 | 1,376 | | | | | | | | | | | | | | |
| | SHOLÁPUR COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 35 | Sholápur Town... ... ... | 59,890 | 44,987·79 | 1 | P. 1,039 | 1,065 | 2,104 | 2,292 | 2,106 | 1,343 | 661 | 2,041 | 188 | 159 | 97·01 | 84·57 | 36·73 | 2,180 | 36·40 | 30 | 0·50 |
| | | | | | R. 176 | 12 | 188 | | | | | | | | | | | | | | |
| 36 | Bársi do. ... ... | 16,126 | 43,002·67 | 1 | P. 302 | 331 | 633 | 633 | 633 | 422 | 105 | 529 | ... | ... | 83·57 | ... | 32·80 | 636 | 39·44 | 10 | 0·62 |
| 37 | Pandharpur do. ... ... | 16,910 | 33,299·69 | 1 | P. 329 | 272 | 601 | 606 | 602 | 416 | 140 | 556 | 5 | 3 | 92·51 | 60·00 | 33·06 | 894 | 52·87 | ... | ... |
| | | | | | R. 4 | 1 | 5 | | | | | | | | | | | | | | |
| 38 | In the 7 Rural Circles. Local Fund. | 489,561 | 108·33 | 11 | P. 10,362 | 10,257 | 20,619 | 1,885 | 20,656 | 16,245 | 3,181 | 19,497 | 112 | 69 | 94·56 | 61·61 | 39·97 | 20,956 | 42·81 | 75 | 0·15 |
| | | | | | R. 102 | 10 | 112 | | | | | | | | | | | | | | |
| | Municipal ... | ... | ... | ... | P. 711 | 653 | 1,364 | 1,365 | 1,365 | 1,111 | 121 | 1,234 | 1 | 1 | 90·47 | 100· | 2 52 | | | | |
| | | | | | R. 1 | ... | 1 | | | | | | | | | | | | | | |
| | Total ... | 582,487 | 128·83 | 14 | P. 12,743 | 12,578 | 25,321 | 1,831 | 25,362 | 19,537 | 4,208 | 23,857 | 306 | 332 | 94·22 | 75·82 | 41·36 | 24,666 | 42·34 | 115 | 0·20 |
| | | | | | R. 283 | 23 | 306 | | | | | | | | | | | | | | |
| | SÁTÁRA COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 39 | Karád Town, Local Fund ... | 10,778 | 29,352·85 | ... | P. 223 | 202 | 425 | 430 | 425 | 320 | 94 | 417 | 5 | 5 | 98·12 | 100· | 39·15 | 156 | 14·47 | 2 | 0·19 |
| | | | | | R. 4 | 1 | 5 | | | | | | | | | | | | | | |
| 40 | Wái do. do. ... | 11,676 | 5,838· | ... | P. 162 | 185 | 347 | 355 | 347 | 194 | 134 | 339 | 8 | 3 | 97·69 | 37·50 | 29·29 | 120 | 10·28 | 3 | 0·26 |
| | | | | | R. 5 | 3 | 8 | | | | | | | | | | | | | | |
| 41 | Sátára do. ... ... | 29,028 | 35,319·24 | 1 | P. 489 | 454 | 943 | 1,162 | 944 | 523 | 263 | 786 | 219 | 217 | 83·35 | 99·09 | 34·55 | 1,112 | 38·31 | 6 | 0·21 |
| | | | | | R. 191 | 28 | 219 | | | | | | | | | | | | | | |
| 42 | In the 12 Rural Circles, Local Fund ... ... ... ... | 1010,868 | 202·80 | 18 | P. 20,868 | 19,645 | 40,513 | 2,271 | 40,527 | 30,657 | 7,199 | 37,971 | 369 | 233 | 93·73 | 63·14 | 37·79 | 37,845 | 37·44 | 163 | 0·15 |
| | | | | | R. 348 | 21 | 369 | | | | | | | | | | | | | | |
| | Total ... | 1062,350 | 212·93 | 19 | P. 21,742 | 20,486 | 42,228 | 2,254 | 42,243 | 31,694 | 7,690 | 39,513 | 601 | 458 | 93·57 | 76·21 | 37·62 | 39,233 | 36·93 | 174 | |
| | | | | | R. 543 | 53 | 601 | | | | | | | | | | | | | | |

## Statement No. I, showing Particulars of Vaccination, &c.—*continued.*

| Number. | Circles and Districts. | Population of Districts according to Census of 1881. | Average Population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. | Primary Vaccinations. | | | | Re-vaccinations. | | Percentage of Successful cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all Ages. | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | THE CENTRAL REGISTRATION DISTRICT—*continued.* | | | | Males. | Females. | Total. | | | | | | | | | | | | | | |
| | RATNÁGIRI COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 43 | Vengurla Towns.. ... .. | 8,947 | 336,829·24 | 1 | P. 183<br>R. 7 | 192 | 375<br>7 | 382 | 375 | 301 | 63 | 370 | 7 | 6 | 98·67 | 85·71 | 42·03 | 259 | 28·96 | 1 | 0·11 |
| 44 | Ratnágiri do. Local Fund .. | 12,616 | 322,969·69 | ... | P. 242<br>R. 15 | 219<br>7 | 461<br>22 | 483 | 461 | 209 | 200 | 420 | 22 | 9 | 91·11 | 40·91 | 34·00 | 338 | 26·79 | 1 | 0·08 |
| 45 | In the 8 Rural Circles, Local Fund ... ... ... ... | 975,527 | 248·73 | 15 | P. 17,258<br>R. 559 | 16,098<br>253 | 33,356<br>812 | 2,278 | 33,367 | 20,399 | 11,255 | 32,270 | 812 | 625 | 96·74 | 76·97 | 33·72 | 29,745 | 30·49 | 211 | 0·22 |
| | Total ... | 997,090 | 254·22 | 16 | P. 17,683<br>R. 581 | 16,509<br>260 | 34,192<br>841 | 2,190 | 34,203 | 20,909 | 11,518 | 33,060 | 841 | 640 | 96·69 | 76·10 | 33·80 | 30,342 | 30·43 | 213 | 0·21 |
| | NATIVE STATES— | | | | | | | | | | | | | | | | | | | | |
| 46 | Akalkot ... ... ... ... | 58,040 | 116·54 | 1 | P. 1,013<br>R. 1 | 904<br>... | 1,917<br>1 | 1,918 | 1,917 | 1,165 | 591 | 1,761 | 1 | 1 | 91·86 | 100· | 30·36 | 1,966 | 33·87 | ... | ... |
| 47 | Modnimb ... .. ... | 13,773 | 154·75 | ... | P. 251<br>R. 3 | 226<br>... | 477<br>3 | 480 | 480 | 353 | 93 | 447 | 3 | 1 | 93·71 | 33·33 | 32·53 | 469 | 34·05 | ... | ... |
| | SATÁRA JÁGHI'RS— | | | | | | | | | | | | | | | | | | | | |
| 48 | Pant Pratinidhi ... .. | 58,916 | 131·80 | 2 | P. 1,116<br>R. 2 | 994<br>... | 2,110<br>2 | 1,056 | 2,112 | 972 | 741 | 1,720 | 2 | 2 | 81·52 | 100· | 29·23 | 1,349 | 22·90 | ... | ... |
| 49 | Pant Sachiv ... ... . . | 145,876 | 97·84 | 3 | 2,482 | 2,443 | 4,925 | 1,642 | 4,929 | 2,744 | 1,975 | 4,810 | ... | ... | 97·66 | ... | 32·97 | 3,929 | 26·93 | ... | ... |
| 50 | Phaltan... ... ... ... | 58,402 | 147·11 | 1 | P. 1,003<br>R. 5 | 999<br>... | 2,002<br>5 | 2,007 | 2,002 | 1,428 | 504 | 1,934 | 5 | 5 | 96·60 | 100· | 33·20 | 1,729 | 29·61 | ... | ... |
| | Total ... | 263,194 | 112·72 | 6 | P. 4,601<br>R. 7 | 4,436<br>... | 9,137<br>7 | 1,519 | 9,043 | 5,144 | 3,220 | 8,464 | 7 | 7 | 92·63 | 100· | 32·18 | 7,007 | 26·62 | ... | ... |
| 51 | Sávantvádi ... ... ... ... | 174,483 | 193·81 | 3 | P. 2,649<br>R. 210 | 2,678<br>66 | 5,327<br>276 | 1,868 | 5,382 | 4,195 | 956 | 5,177 | 276 | 171 | 97·18 | 61·96 | 30·66 | 5,453 | 31·26 | ... | ... |
| | TOTALS BY ESTABLISHMENTS IN CENTRAL REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | | |
| | Cantonment ... ... ... | 37,381 | 4,255·40 | 1 | P. 1,031<br>R. 391 | 740<br>25 | 1,771<br>416 | 2,187 | 1,771 | 1,241 | 489 | 1,742 | 416 | 260 | 98·36 | 62·50 | 53·56 | 1,938 | 51·84 | 9 | 0·24 |
| | Municipal ... ... ... | 268,015 | 31,318·17 | 8 | P. 5,564<br>R. 1,215 | 5,224<br>164 | 10,788<br>1,379 | 1,521 | 10,793 | 7,060 | 2,860 | 10,017 | 1,379 | 838 | 92·85 | 60·77 | 40·50 | 11,577 | 43·20 | 270 | 1·01 |
| | Local Fund ... ... ... | 3,988,380 | 156·85 | 72 | P. 77,726<br>R. 1,308 | 74,477<br>339 | 152,203<br>1,647 | 2,137 | 152,314 | 109,316 | 33,485 | 143,836 | 1,647 | 1,143 | 94·50 | 69·40 | 36·30 | 138,634 | 34·76 | 1,195 | 0·30 |
| | Native States ... ... ... | 509,440 | 133·29 | 10 | P. 8,514<br>R. 221 | 8,244<br>66 | 16,758<br>287 | 1,704 | 16,822 | 10,857 | 4,860 | 15,849 | 287 | 180 | 94·58 | 62·72 | 31·46 | 14,894 | 29·24 | .. | ... |
| | Grand Total ... | 4,803,216 | 164·12 | 91 | P. 92,835<br>R. 3,135 | 88,685<br>594 | 181,520<br>3,729 | 2,036 | 181,700 | 128,474 | 41,694 | 171,444 | 3,729 | 2,421 | 94·45 | 64·92 | 36·20 | 167,043 | 34·78 | 1,474 | 0·31 |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **THE SOUTHERN REGISTRATION DISTRICT.** | | | | | | | | | | | | | | | | | | | | |
| | **BELGAUM COLLECTORATE—** | | | | | | | | | | | | | | | | | | | | |
| 52 | Gokák Town ... ... ... | 10,307 | 26,385·92 | ... | P. 175<br>R. 61 | 183<br>12 | 358<br>73 | 936 | 358<br>429 | 190<br>311 | 165<br>117 | 355<br>429 | 73<br>76 | 71<br>71 | 99·16<br>100· | 97·26<br>93·42 | 41·33<br>44·61 | 127 | 12·32 | 2 | 0·19 |
| 53 | Athni do. ... ... ... | 11,186 | 12,195·98 | 1 | P. 197<br>R. 66 | 232<br>10 | 429<br>76 | | | | | | | | | | | | | | |
| 54 | Belgaum do. ... ... ... | 23,115 | 51,188·93 | 1 | P. 638<br>R. 74 | 623<br>3 | 1,261<br>77 | 1,643 | 1,261<br>245 | 839<br>183 | 363<br>51 | 1,221<br>243 | 77<br>60 | 33<br>27 | 96·83<br>99·19 | 42·86<br>45·00 | 54·25<br>28·18 | 374<br>987 | 33·43<br>42·70 | 4<br>8 | 0·36<br>0·35 |
| 55 | Do. Cantonment ... ... | 9,582 | ... | ... | P. 118<br>R. 44 | 127<br>16 | 245<br>60 | | | | | | | | | | | | | | |
| 56 | In the 7 Rural Circles. { Local Fund ... / Native State ... } | 809,824 | 173·97 | 16 | P. 17,178<br>R. 3,100<br>3 | 16,459<br>882<br>1 | 33,637<br>3,982<br>4 | 2,351<br>4 | 33,674<br>4 | 18,559<br>3 | 13,171<br>1 | 32,206<br>4 | 3,982<br>... | 2,600<br>... | 95·75<br>100· | 65·29<br>... | 42·98<br>... | 208<br>24,986 | 21·71<br>30·85 | ...<br>315 | ...<br>0·39 |
| | Total ... | 864,014 | 185·54 | 18 | P. 18,309<br>R. 3,345 | 17,625<br>923 | 35,934<br>4,268 | 2,233 | 35,971 | 20,385 | 13,868 | 34,458 | 4,268 | 2,802 | 95·89 | 65·65 | 43·12 | 26,682 | 30·88 | 329 | 0·38 |
| | **DHÁRWÁR COLLECTORATE—** | | | | | | | | | | | | | | | | | | | | |
| 57 | Dhárwár Town ... ... ... | 27,191 | 23,676·52 | 1 | P. 589<br>R. 209 | 529<br>14 | 1,118<br>223 | 1,341 | 1,118 | 721 | 307 | 1,093 | 223 | 187 | 97·76 | 83·86 | 47·07 | 1,181 | 43·43 | 9 | 0·33 |
| 58 | Hubli do. ... ... ... | 36,677 | 31,090·44 | 1 | P. 635<br>R. 110 | 701<br>11 | 1,336<br>121 | 1,457 | 1,337 | 846 | 443 | 1,294 | 121 | 51 | 96·86 | 42·15 | 36·67 | 1,123 | 30·62 | 31 | 0·85 |
| 59 | Gadag-Bettigeri Town ... | 17,001 | 61,127·19 | 1 | P. 695<br>R. 84 | 688<br>3 | 1,383<br>87 | 1,470 | 1,383 | 1,030 | 276 | 1,313 | 87 | 50 | 94·94 | 57·47 | 80·17 | 1,201 | 70·64 | 8 | 0·47 |
| 60 | Ránebennur do. Local Fund. | 10,202 | 27,666·44 | ... | P. 248<br>R. 56 | 231<br>3 | 479<br>59 | 538 | 479 | 276 | 121 | 403 | 59 | 43 | 84·13 | 72·88 | 43·72 | 828 | 81·16 | 4 | 0·39 |
| 61 | In the 14 Rural Circles, Local Fund. | 791,836 | 174·73 | 18 | P. 13,959<br>R. 2,570 | 13,753<br>291 | 27,712<br>2,861 | 1,798 | 27,820 | 17,015 | 8,234 | 25,531 | 2,861 | 1,484 | 92·13 | 51·87 | 34·12 | 25,493 | 32.19 | 380 | 0·48 |
| | Total ... | 882,907 | 194·70 | 21 | P. 16,126<br>R. 3,029 | 15,902<br>322 | 32,028<br>3,351 | 1,769 | 32,137 | 19,888 | 9,381 | 29,634 | 3,351 | 1,815 | 92·53 | 54·16 | 35·62 | 29,826 | 33·78 | 432 | 0·49 |
| | **BIJÁPUR COLLECTORATE—** | | | | | | | | | | | | | | | | | | | | |
| 62 | Bijápur Town... ... ... | 11,424 | 5,372·05 | 1 | P. 451<br>R. 109 | 444<br>22 | 895<br>131 | 1,026 | 895 | 410 | 386 | 850 | 131 | 99 | 94·57 | 75·57 | 83·07 | 327 | 28·62 | ... | ... |
| 63 | Bágalkot do.... ... ... | 12,850 | 42,174·36 | 1 | P. 769<br>R. 104 | 757<br>3 | 1,526<br>107 | 1,633 | 1,526 | 941 | 489 | 1,438 | 107 | 34 | 94·23 | 31·78 | 114·55 | 1,048 | 31·56 | ... | ... |
| 64 | Kaládgi do. Local Fund... | 7,024 | 59,938·13 | ... | P. 63<br>R. 14 | 65<br>... | 128<br>14 | 142 | 128 | 56 | 54 | 110 | 14 | 4 | 85·94 | 28·57 | 16·23 | 43 | 6·12 | 3 | 0·43 |
| 65 | Guledgudd do.... ... ... | 10,649 | .... | 1 | 17 | 18 | 35 | 35 | 35 | 5 | 29 | 34 | ... | ... | 97·14 | ... | 3·19 | ... | ... | ... | ... |
| 66 | In the 8 Rural Circles. { Local Fund ... / Native State ... } | 596,546 | 105·51 | 12 | P. 15,279<br>R. 4,611<br>P. 24<br>R. 5 | 14,942<br>1,024<br>15<br>1 | 30,221<br>5,635<br>39<br>6 | 3,988<br>45 | 30,262<br>39 | 16,269<br>28 | 11,857<br>11 | 28,504<br>39 | 5,635<br>6 | 3,632<br>2 | 94·32<br>100· | 64·45<br>33·33 | 53·87<br>0·07 | 22,017 | 36·26 | 147 | 0·24 |
| | Total ... | 638,493 | 110·90 | 15 | P. 16,603<br>R. 4,843 | 16,241<br>1,050 | 32,844<br>5,893 | 2,582 | 32,885 | 17,709 | 12,826 | 30,975 | 5,893 | 3,771 | 94·31 | 63·99 | 54·42 | 23,435 | 36·70 | 150 | 0·23 |
| | **KÁNARA COLLECTORATE—** | | | | | | | | | | | | | | | | | | | | |
| 67 | Kárwár Town ... ... ... | 13,761 | 1,169·44 | 1 | P. 368<br>R. 131 | 293<br>32 | 661<br>163 | 824 | 661 | 252 | 318 | 608 | 163 | 142 | 91·98 | 87·12 | 54·51 | 588 | 42·73 | 3 | 0·22 |
| 68 | Kumta do, Local Fund ... | 10,629 | 1,445·82 | ... | P. 144<br>R. 30 | 164<br>19 | 308<br>49 | 357 | 308 | 62 | 150 | 240 | 49 | 18 | 77·92 | 36·73 | 24·27 | 218 | 20·51 | 6 | 0·56 |
| 69 | In the 11 Rural Circles, Local Fund. | 397,450 | 102·13 | 14 | P. 7,274<br>R. 1,876 | 6,871<br>1,067 | 14,145<br>2,943 | 1,221 | 14,170 | 3,857 | 7,202 | 12,861 | 2,952 | 2,107 | 90·92 | 71·59 | 37·66 | 9,754 | 24·54 | 247 | 0·62 |
| | Total ... | 421,840 | 107·87 | 15 | P. 7,786<br>R. 2,037 | 7,328<br>1,118 | 15,114<br>3,155 | 1,218 | 15,139 | 4,171 | 7,670 | 13,709 | 3,164 | 2,267 | 90·70 | 71·85 | 37·87 | 10,560 | 25·03 | 256 | 0·61 |

## Statement No. I, showing Particulars of Vaccination, &c.—*continued.*

| Number. | Circles and Districts. | Population of Districts according to Census of 1881. | Average Population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. | Primary Vaccinations. | | | | Re-vaccinations. | | Percentage of successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all Ages. | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | THE SOUTHERN REGISTRATION DISTRICT—*continued.* | | | | Males. | Females. | Total. | | | | | | | | | | | | | | |
| | SOUTHERN MARÁTHA JÁGHI'RS— | | | | | | | | | | | | | | | | | | | | |
| 70 | Sángli ... ... ... ... | 196,832 | 219·68 | 7 | P. 3,518<br>R. 636 | 3,340<br>169 | 6,858<br>805 | 1,095 | 6,875 | 4,369 | 1,887 | 6,323 | 805 | 618 | 92·20 | 76·77 | 35·26 | 4,722 | 23·99 | ... | .. |
| 71 | Jamkhandi ... ... ... | 83,917 | 170·56 | 2 | P. 1,547<br>R. 77 | 1,502<br>13 | 3,049<br>90 | 1,569 | 3,055 | 1,769 | 1,179 | 3,006 | 90 | 82 | 98·59 | 91·12 | 36·79 | 3,475 | 41·41 | ... | .. |
| 72 | Miraj (Senior) ... ... ... | 55,959 | 222·94 | 2 | P. 1,120<br>R. 94 | 1,077<br>16 | 2,197<br>110 | 1,153 | 2,207 | 1,378 | 748 | 2,134 | 110 | 94 | 97·13 | 85·45 | 39·81 | 2,152 | 38·46 | ... | ... |
| 73 | Do. (Junior) ... ... ... | 30,541 | 146·83 | 1 | P. 564<br>R. 3 | 453<br>4 | 1,017<br>7 | 1,024 | 1,021 | 461 | 539 | 1,000 | 7 | 5 | 98·33 | 71·43 | 32·90 | 607 | 19·87 | ... | ... |
| 74 | Kurundvád (Elder) .. ... | 35,187 | 193·33 | 1 | P. 575<br>R. 280 | 475<br>49 | 1,050<br>329 | 1,379 | 1,050 | 383 | 573 | 956 | 329 | 250 | 91·05 | 75·99 | 34·27 | 1,125 | 31·97 | ... | ... |
| 75 | Do. (Younger) ... | 25,811 | 226·41 | 1 | P. 671<br>R. 29 | 613<br>11 | 1,284<br>40 | 1,324 | 1,284 | 558 | 631 | 1,189 | 40 | 30 | 92·60 | 75·00 | 47·22 | 767 | 29·72 | ... | ... |
| 76 | Mudhol ... ... .. ... | 52,163 | 144·10 | 1 | P. 1,542<br>R. 564 | 1,528<br>304 | 3,070<br>868 | 3,934 | 3,070 | 1,896 | 1,124 | 3,023 | 868 | 628 | 98·47 | 72·35 | 69·99 | 1,982 | 38·00 | ... | ... |
| 77 | Rámdurg .. ... ... ... | 29,570 | 211·21 | 1 | P. 618<br>R. 102 | 622<br>1 | 1,240<br>103 | 1,343 | 1,240 | 615 | 576 | 1,201 | 103 | 46 | 96·85 | 44·66 | 42·17 | 1,070 | 36·19 | ... | ... |
| | Total ... | 509,980 | 192·81 | 16 | P. 10,155<br>R. 1,785 | 9,610<br>567 | 19,765<br>2,352 | 1,380 | 19,302 | 11,429 | 7,257 | 18,832 | 2,352 | 1,753 | 95·28 | 74·50 | 40·36 | 15,900 | 31·18 | ... | ... |
| | UNDER THE DHÁRWÁR AGENCY— | | | | | | | | | | | | | | | | | | | | |
| 78 | Sávanúr State ... ... ... | 14,763 | 210·90 | 1 | P. 289<br>R. 46 | 308<br>29 | 597<br>75 | 672 | 600 | 390 | 158 | 553 | 75 | 59 | 92·63 | 78·67 | 41·45 | 966 | 65·43 | ... | ... |
| 79 | KOLHÁPUR STATES .. ... | 800,189 | 284·16 | 13 | P. 14,602<br>R. 3,507 | 14,188<br>1,281 | 28,790<br>4,788 | 2,583 | 28,919 | 17,450 | 9,664 | 27,479 | 4,788 | 3,516 | 95·45 | 74·53 | 38·73 | 25,846 | 32·30 | ... | ... |
| | UNDER THE BIJÁPUR AGENCY— | | | | | | | | | | | | | | | | | | | | |
| 80 | Jath ... ... ... ... | 55,493 | 56·68 | 2 | P. 2,207<br>R. 235 | 2,164<br>68 | 4,371<br>303 | 2,337 | 4,373 | 1,915 | 1,893 | 3,847 | 303 | 239 | 88·01 | 78·88 | 73·63 | 1,972 | 35·54 | ... | ... |
| | TOTALS BY ESTABLISHMENTS IN SOUTHERN REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | | |
| | Municipal ... ... ... | 162,012 | 9,432·55 | 9 | P. 4,652<br>R. 992 | 4,595<br>126 | 9,247<br>1,118 | 1,152 | 9,248 | 5,728 | 2,944 | 8,878 | 1,118 | 765 | 96·33 | 68·43 | 59·52 | 7,039 | 46·50 | 62 | 0·41 |
| | Local Fund ... ... ... | 2,645,242 | 140·95 | 60 | P. 54,145<br>R. 12,257 | 52,485<br>3,286 | 106,630<br>15,543 | 2,036 | 106,841 | 56,394 | 40,789 | 99,855 | 15,552 | 9,888 | 93·65 | 63·62 | 41·48 | 83,263 | 31·35 | 1,105 | 0·42 |
| | Native State ... ... ... | 1,380,425 | 209·19 | 32 | P. 27,280<br>R. 5,578 | 26,286<br>1,946 | 53,566<br>7,524 | 1,909 | 53,737 | 31,215 | 18,984 | 50,754 | 7,524 | 5,569 | 94·75 | 74·02 | 40·80 | 44,885 | 32·52 | ... | ... |
| | Grand Total ... | 4,187,679 | 164·49 | 101 | P. 86,077<br>R. 18,827 | 83,366<br>5,358 | 169,443<br>24,185 | 1,917 | 169,826 | 93,337 | 62,717 | 159,487 | 24,194 | 16,222 | 94·12 | 67·07 | 41·96 | 1,35,187 | 32·29 | 1,167 | 0·28 |
| | THE EASTERN GUJARA'T REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | | |
| | SURAT COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 81 | Bulsár Town ... ... ... | 13,229 | 5,291·60 | ... | ..... | ... | ... | *Vide* | Statement No. | III. | | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 0·08 |
| 82 | Surat do. ... ... ... | 109,844 | 36,614·66 | 2 | P. 1,851<br>R. 96 | 1,733<br>4 | 3,584<br>100 | 1,842 | 3,585 | 2,728 | 753 | 3,494 | 100 | 11 | 97·49 | 11·00 | 31·91 | 3,062 | 27·88 | ... | ... |
| 83 | In the 8 Rural Circles, Local Fund. | 491,125 | 296·39 | 9 | P. 7,908<br>R. 225 | 7,574<br>93 | 15,482<br>318 | 1,756 | 15,523 | 10,837 | 4,027 | 15,045 | 318 | 217 | 97·18 | 68·24 | 31·08 | 16,096 | 32·77 | 55 | 0·11 |
| | Total ... | 614,198 | 369·44 | 11 | P. 9,759<br>R. 321 | 9,307<br>97 | 19,066<br>418 | 1,771 | 19,108 | 13,565 | 4,780 | 18,539 | 418 | 228 | 97·24 | 54·55 | 30·55 | 19,158 | 31·19 | 56 | 0·09 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Broach Collectorate—** | | | | | | | | | | | | | | | | | | | | | |
| 84 | Broach City ... ... ... | 37,281 | 22,133·43 | 1 | P. 837<br>R. 48 | 764<br>7 | 1,601<br>55 | 1,656 | 1,609 | 1,306 | 232 | 1,568 | 56 | 19 | 97·94 | 34·55 | 42·57 | 1,123 | 30·26 | 2 | 0·05 |
| 85 | Jambusar Town, Local Fund... | 11,479 | 21,110·80 | ... | P. 215<br>R. 1 | 202<br>... | 417<br>1 | 418 | 418 | 311 | 84 | 398 | 1 | 1 | 95·44 | 100· | 34·76 | 354 | 30·84 | ... | ... |
| 86 | In the 6 Rural Circles, Local Fund ... ... ... ... | 278,170 | 191·73 | 5 | P. 5,277<br>R. 1,096 | 5,132<br>515 | 10,409<br>1,611 | 2,404 | 10,463 | 8,029 | 1,751 | 10,063 | 1,611 | 1,044 | 96·68 | 64·80 | 39·93 | 8,653 | 31·11 | 16 | 0·06 |
| | Total ... | 326,930 | 224·99 | 6 | P. 6,329<br>R. 1,145 | 6,098<br>522 | 12,427<br>1,667 | 2,349 | 12,490 | 9,646 | 2,067 | 12,029 | 1,668 | 1,064 | 96·80 | 63·83 | 40·05 | 10,135 | 31·00 | 18 | 0·05 |
| | **Kaira Collectorate—** | | | | | | | | | | | | | | | | | | | | | |
| 87 | Kapadvanj Town ... ... | 14,442 | 63,307·40 | ... | ..... | ... | ... | *Vide* | Statement | No. | III. | ... | ... | ... | ... | ... | ... | ... | ... | 6 | 0·42 |
| 88 | Nadiád do. ... ... | 28,304 | 85,044·88 | 1 | P. 596<br>R. 25 | 456<br>2 | 1,052<br>27 | 1,079 | 1,052 | 791 | 214 | 1,006 | 27 | 6 | 95·63 | 22·22 | 35·75 | 958 | 33·85 | 1 | 0·04 |
| 89 | Borsad Town, Local Fund ... | 12,228 | 64,146,89 | ... | P. 276<br>R. 7 | 290<br>1 | 566<br>8 | 574 | 566 | 467 | 95 | 564 | 8 | 7 | 99·65 | 87·50 | 46·70 | 257 | 21·02 | 2 | 0·16 |
| 90 | Kaira do. do. ... | 12,640 | 44,942·22 | ... | P. 202<br>R. 16 | 148<br>... | 350<br>16 | 366 | 350 | 256 | 71 | 327 | 16 | 13 | 93·43 | 81·25 | 26·90 | 300 | 23·73 | 1 | 0·08 |
| 91 | In the 7 Rural Circles, Local Fund ... ... ... ... | 737,186 | 458·57 | 10 | P. 13,143<br>R. 204 | 10,980<br>23 | 24,123<br>227 | 2,435 | 24,203 | 18,486 | 5,047 | 23,614 | 227 | 157 | 97·89 | 69·16 | 32·25 | 22,871 | 31·02 | 40 | 0·05 |
| | Total ... | 804,800 | 500·31 | 11 | P. 14,217<br>R. 252 | 11,874<br>26 | 26,091<br>278 | 2,397 | 26,171 | 20,000 | 5,427 | 25,511 | 278 | 183 | 97·78 | 65·83 | 31·93 | 24,386 | 30·39 | 50 | 0·06 |
| | **Panch Mahals—** | | | | | | | | | | | | | | | | | | | | | |
| 92 | Godhra Town, Local Fund ... | 13,342 | 79,802·62 | ... | P. 352<br>R. 32 | 266<br>... | 618<br>32 | 650 | 618 | 404 | 175 | 607 | 32 | 23 | 98·22 | 71·87 | 47·22 | 593 | 44·45 | ... | ... |
| 93 | Dohad do. do. ... | 12,394 | 74,132·64 | ... | P. 199<br>R. 3 | 210<br>2 | 409<br>5 | 414 | 409 | 278 | 111 | 392 | 5 | 1 | 95·84 | 20·00 | 31·71 | 337 | 27·19 | 2 | 0·16 |
| 94 | In the 5 Rural Circles, Local Fund ... ... ... ... | 229,743 | 142·43 | 6 | P. 4,659<br>R. 76 | 4,198<br>18 | 8,857<br>94 | 1,492 | 8,876 | 6,380 | 2,132 | 8,651 | 94 | 59 | 97·67 | 62·77 | 37·91 | 8,540 | 37·17 | 16 | 0·07 |
| | Total ... | 255,479 | 158·35 | 6 | P. 5,210<br>R. 111 | 4,674<br>20 | 9,884<br>131 | 1,669 | 9,903 | 7,062 | 2,418 | 9,650 | 131 | 83 | 97·63 | 63·36 | 38·10 | 9,470 | 37·07 | 18 | 0·07 |
| | **Ahmedabad Collectorate—** | | | | | | | | | | | | | | | | | | | | | |
| 95 | Dholka Town ... ... ... | 17,716 | 23,621·33 | 1 | P. 339<br>R. 82 | 305<br>10 | 644<br>92 | 736 | 645 | 599 | 24 | 627 | 92 | 72 | 97·36 | 78·26 | 39·46 | 744 | 42·00 | 2 | 0·11 |
| 96 | Ahmedabad City ... ... | 124,767 | 57,722·57 | 2 | P. 2,322<br>R. 333 | 2,191<br>249 | 4,513<br>582 | 2,547 | 4,533 | 3,936 | 477 | 4,428 | 584 | 355 | 98·12 | 61·00 | 38·34 | 4,349 | 34·86 | 1 | 0·01 |
| 97 | Ahmedabad Cantonment ... | 2,854 | ... | ... | P. 10<br>R. 4 | 11<br>... | 21<br>4 | 25 | 21 | 16 | 5 | 21 | 4 | 4 | 100· | 100· | 8·76 | 50 | 17·52 | ... | ... |
| 98 | Gogha Town, Local Fund ... | 7,063 | 9,417·33 | ... | P. 117<br>R. 1 | 141<br>... | 258<br>1 | 259 | 258 | 207 | 43 | 251 | 1 | 1 | 97·29 | 100· | 35·68 | 267 | 37·80 | 2 | 0·28 |
| 99 | Viramgám Town, do. ... | 18,990 | 30,925·19 | ... | P. 362<br>R. 4 | 314<br>3 | 676<br>7 | 683 | 678 | 509 | 146 | 657 | 7 | 1 | 97·19 | 14·29 | 34·65 | 556 | 29·28 | 2 | 0·11 |
| 100 | In the 7 Rural Circles, Local Fund ... ... ... ... | 684,934 | 179·45 | 12 | P. 11,252<br>R. 476 | 10,455<br>67 | 21,707<br>543 | 1,854 | 21,810 | 18,209 | 2,710 | 20,980 | 548 | 273 | 96·65 | 50·28 | 31·03 | 23,047 | 33·65 | 46 | 0·07 |
| | Total ... | 856,324 | 224·10 | 15 | P. 14,462<br>R. 900 | 13,417<br>329 | 27,819<br>1,229 | 1,937 | 27,945 | 23,476 | 3,405 | 26,964 | 1,236 | 706 | 96·93 | 57·45 | 32·31 | 29,013 | 33·88 | 53 | 0·06 |
| 101 | Rewa Kántha States ... ... | 543,452 | 113·41 | 13 | P. 9,298<br>R. 165 | 8,971<br>108 | 18,269<br>273 | 1,426 | 18,314 | 8,233 | 8,685 | 17,729 | 273 | 202 | 97·04 | 73·99 | 32·99 | 18,311 | 33·69 | ... | ... |
| 102 | Mahi Kántha States ... ... | 517,485 | 46·84 | 8 | P. 6,936<br>R. 94 | 6,459<br>25 | 13,395<br>119 | 1,689 | 13,403 | 10,025 | 3,102 | 13,234 | 119 | 101 | 98·80 | 84·87 | 25·77 | 13,639 | 26·34 | ... | ... |
| 103 | Cambay ... ... ... ... | 86,074 | 245·03 | 1 | P. 1,315<br>R. 6 | 1,042<br>7 | 2,357<br>13 | 2,370 | 2,365 | 1,556 | 725 | 2,293 | 13 | 10 | 97·28 | 76·92 | 26·76 | 1,906 | 22·14 | ... | ... |
| 104 | Surat Agency — Dharampor... | 101,289 | 127·57 | 2 | P. 2,746<br>R. 16 | 2,530<br>6 | 5,276<br>22 | 2,649 | 5,284 | 1,954 | 2,592 | 5,129 | 22 | 17 | 97·21 | 77·27 | 50·81 | 4,148 | 40·95 | ... | ... |
| 105 | Surat Agency — Bánsda ... | 34,122 | 88·86 | 1 | P. 992<br>R. 38 | 1,024<br>7 | 2,016<br>45 | 2,061 | 2,021 | 805 | 1,085 | 1,999 | 45 | 33 | 99·16 | 73·33 | 59·55 | 1,269 | 37·19 | .... | ... |
| 106 | Surat Agency — Sachin Local Fund ... | 15,721 | 374·31 | ... | P. 234<br>R. 9 | 218<br>8 | 452<br>17 | 469 | 452 | 272 | 154 | 432 | 17 | 15 | 95·57 | 88·24 | 28·43 | 411 | 26·14 | ... | ... |
| 107 | Jámbughoda Local Fund ... | 6,440 | 45·03 | ... | P. 157<br>R. 2 | 146<br>1 | 303<br>3 | 306 | 304 | 210 | 74 | 288 | 3 | 2 | 95·05 | 66·67 | 45·03 | 128 | 19·88 | ... | ... |

## Statement No. I, showing Particulars of Vaccination, &c.—*continued.*

| Number. | Circles and Districts. | Population of Districts according to Census of 1881. | Average Population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. | Primary Vaccinations. | | | | Re-vaccinations. | | Percentage of Successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all Ages. | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | TOTALS BY ESTABLISHMENTS IN EASTERN GUJARAT REGISTRATION DISTRICT. | | | | Males. | Females. | Total. | | | | | | | | | | | | | | |
| | Municipal ... ... ... | 317,912 | 40,205·69 | 7 | P. 5,945<br>R. 584 | 5,449<br>272 | 11,394<br>856 | 1,750 | 11,424 | 9,360 | 1,700 | 11,123 | 859 | 463 | 97·62 | 54·09 | 36·44 | 10,319 | 32·46 | 8 | 0·03 |
| | Local Fund ... ... ... | 2,559,126 | 247·60 | 42 | P. 44,353<br>R. 2,152 | 40,274<br>731 | 84,627<br>2,883 | 2,084 | 84,928 | 64,855 | 16,620 | 82,269 | 2,888 | 1,814 | 97·21 | 62·92 | 32·86 | 82,368 | 32·19 | 188 | 0·07 |
| | Native State ... ... ... | 1,282,422 | 73·84 | 25 | P. 21,287<br>R. 319 | 20,026<br>153 | 41,313<br>472 | 1,671 | 41,387 | 22,573 | 16,189 | 40,384 | 472 | 363 | 97·75 | 76·91 | 31·77 | 39,273 | 30·62 | ... | ... |
| | Cantonment ... ... ... | 2,854 | ... | ... | P. 10<br>R. 4 | 11<br>... | 21<br>4 | 25 | 21 | 16 | 5 | 21 | 4 | 4 | 100· | 100· | 8·76 | 14 | 4·91 | ... | ... |
| | Grand Total ... | 4,162,314 | 150·20 | 74 | P. 71,595<br>R. 3,659 | 65,760<br>1,156 | 137,355<br>4,215 | 1,913 | 13,760 | 96,804 | 34,514 | 133,797 | 4,223 | 2,644 | 97·41 | 62·73 | 32·78 | 131,974 | 31·71 | 196 | 0·05 |
| | THE WESTERN GUJARA'T CIRCLE—KA'THIA'WA'R STATES. | | | | | | | | | | | | | | | | | | | | |
| 108 | Jhálávád Pránt. Limbdi ... ... | 43,063 | 153·80 | 1 | P. 1,331<br>R. 104 | 1,246<br>31 | 2,577<br>135 | 2,712 | 2,577 | 2,047 | 438 | 2,491 | 135 | 102 | 96·66 | 75·56 | 60·21 | 2,585 | 60·03 | ... | ... |
| 109 | Jhálávád Pránt. Dhrángadhra ... | 99,686 | 87·29 | 1 | P. 1,141<br>R. 14 | 1,129<br>3 | 2,270<br>17 | 2,287 | 2,270 | 1,490 | 655 | 2,160 | 17 | 11 | 95·15 | 64·71 | 21·78 | 2,468 | 24·76 | ... | ... |
| 110 | Jhálávád Pránt. In 4 other States ... | 296,880 | 103·44 | 4 | P. 5,129<br>R. 228 | 4,752<br>176 | 9,881<br>404 | 2,571 | 9,979 | 6,366 | 2,862 | 9,291 | 404 | 249 | 94·03 | 61·63 | 32·13 | 10,459 | 35·23 | . | ... |
| | Total ... | 439,629 | 102·43 | 6 | P. 7,601<br>R. 346 | 7,127<br>210 | 14,728<br>556 | 2,547 | 14,826 | 9,903 | 3,955 | 13,942 | 556 | 362 | 94·67 | 65·10 | 32·54 | 15,512 | 35·28 | ... | ... |
| 111 | Hálár Pránt. Rájkot ... ... | 61,809 | 229·77 | 1 | P. 891<br>R. 32 | 888<br>22 | 1,779<br>54 | 2,055 | 1,787 | 999 | 678 | 1,699 | 54 | 41 | 95·50 | 75·93 | 28·15 | 2,348 | 37·99 | ... | .. |
| 112 | Hálár Pránt. Do. Cantonment. | 6,013 | 2,696·41 | 1 | P. 31<br>R. 135 | 45<br>11 | 76<br>146 | 2,055 | 76 | 36 | 34 | 70 | 146 | 64 | 92·11 | 43·84 | 22·29 | 126 | 20·95 | ... | ... |
| 113 | Hálár Pránt. Gondal ... ... | 135,604 | 197·41 | 2 | P. 2,935<br>R. 120 | 2,822<br>45 | 5,757<br>165 | 2,961 | 5,770 | 3,607 | 1,674 | 5,307 | 165 | 86 | 92·18 | 52·12 | 39·77 | 4,802 | 35·41 | ... | ... |
| 114 | Hálár Pránt. Morvi ... ... | 89,964 | 121·57 | 1 | P. 1,351<br>R. 83 | 1,287<br>63 | 2,638<br>146 | 2,784 | 2,646 | 1,933 | 513 | 2,459 | 146 | 120 | 93·21 | 82·19 | 28·67 | 2,872 | 31·92 | ... | ... |
| 115 | Hálár Pránt. Navánagar... ... | 316,147 | 93·16 | 3 | P. 4,272<br>R. 135 | 3,983<br>34 | 8,255<br>169 | 2,808 | 8,256 | 4,532 | 3,341 | 7,914 | 169 | 117 | 95·87 | 69·23 | 25·40 | 7,724 | 24·43 | ... | ... |
| 116 | Hálár Pránt. In 3 other States ... | 74,790 | 207·13 | 3 | P. 4,454<br>R. 67 | 4,387<br>20 | 8,841<br>87 | 2,976 | 8,852 | 5,419 | 3,018 | 8,447 | 87 | 64 | 95·54 | 73·56 | 113·80 | 7,653 | 102·33 | ... | ... |
| | Total ... | 684,327 | 116·93 | 10 | P. 13,934<br>R. 572 | 13,412<br>195 | 27,346<br>767 | 2,811 | 27,387 | 16,526 | 9,258 | 25,896 | 767 | 492 | 94·70 | 64·15 | 38·56 | 25,525 | 37·30 | ... | ... |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 117 | Sorath Prant. | Junágad ... ... | 387,499 | 101·97 | 4 | P. 3,886 R. 223 | 3,710 151 | 7,596 374 | 1,992 | 7,602 | 3,737 | 2,951 | 6,756 | 374 | 165 | 88·94 | 44·12 | 17·86 | 7,785 | 20·09 | ... | ... |
| 118 | | Jetpur ... ... | 99,553 | 165·27 | 1 | P. 1,304 R. 27 | 1,245 20 | 2,549 47 | 2,596 | 2,552 | 1,318 | 920 | 2,250 | 47 | 28 | 88·27 | 59·57 | 24·61 | 2,067 | 22·33 | ... | ... |
| 119 | | Porbandar... ... | 71,072 | 125·42 | 1 | P. 1,245 R. 84 | 1,444 68 | 2,389 152 | 2,541 | 2,389 | 1,626 | 628 | 2,286 | 152 | 81 | 95·69 | 53·29 | 33·30 | 2,117 | 29·79 | ... | ... |
| 120 | | Bántva ... ... | 38,517 | 189·46 | 1 | P. 1,125 R. 75 | 1,216 76 | 2,341 151 | 2,492 | 2,344 | 1,075 | 1,051 | 2,144 | 151 | 109 | 91·58 | 72·19 | 58·49 | 2,982 | 77·42 | ... | ... |
| 121 | | In 4 other States... | 50,139 | 196·74 | 4 | P. 4,107 R. 247 | 4,068 219 | 8,175 466 | 2,160 | 8,178 | 4,369 | 3,061 | 7,481 | 466 | 306 | 91·51 | 65·67 | 155·31 | 9,218 | 183·85 | ... | ... |
| | | Total ... | 639,780 | 118·81 | 11 | P. 11,667 R. 656 | 11,383 534 | 23,050 1,190 | 2,204 | 23,065 | 12,125 | 8,611 | 20,917 | 1,190 | 689 | 90·75 | 57·90 | 33·77 | 24,169 | 37·78 | ... | ... |
| 122 | Gohelvád Prant. | Bhávnagar... ... | 420,708 | 147·10 | 6 | P. 6,530 R. 146 | 6,107 64 | 12,637 210 | 2,141 | 12,676 | 7,020 | 4,482 | 11,610 | 210 | 129 | 91·87 | 61·43 | 27·90 | 13,143 | 31·24 | ... | ... |
| 123 | | Pálitána ... ... | 62,122 | 203·68 | 1 | P. 925 R. 108 | 924 76 | 1,849 184 | 2,033 | 1,851 | 1,057 | 641 | 1,704 | 184 | 92 | 92·16 | 50·00 | 28·91 | 1,733 | 27·90 | ... | ... |
| 124 | | Vala ... ... | 68,296 | 151·10 | 1 | P. 776 R. 60 | 703 37 | 1,479 97 | 1,576 | 1,479 | 704 | 653 | 1,378 | 97 | 79 | 93·17 | 81·44 | 21·33 | 1,534 | 22·46 | ... | ... |
| 125 | | Jasdan ... ... | 29,037 | 263·97 | 1 | P. 1,322 R. 46 | 1,305 23 | 2,627 69 | 2,696 | 2,628 | 1,112 | 1,332 | 2,462 | 69 | 42 | 93·72 | 60·87 | 86·23 | 2,124 | 73·15 | ... | ... |
| | | Total ... | 580,163 | 155·66 | 9 | P. 9,553 R. 360 | 9,039 200 | 18,592 560 | 2,128 | 18,634 | 9,893 | 7,108 | 17,154 | 560 | 342 | 92·27 | 61·07 | 30·16 | 18,534 | 31·93 | ... | ... |
| | | Káthiáwár States, Total ... | 2,343,899 | 147·69 | 36 | P. 42,755 R. 1,934 | 40,961 1,139 | 83,716 3,073 | 2,411 | 83,912 | 48,447 | 28,932 | 77,909 | 3,073 | 1,885 | 93·06 | 61·34 | 34·04 | 83,740 | 35·30 | ... | ... |
| | PÁLANPUR STATES— | | | | | | | | | | | | | | | | | | | | | |
| 126 | | Deesa ... ... ... ... | 49,821 | 57·66 | 1 | P. 1,058 R. 32 | 939 16 | 1,997 48 | 2,170 | 1,996 | 1,383 | 447 | 1,830 | 48 | 32 | 91·64 | 66·67 | 37·37 | 1,875 | 37·63 | ... | ... |
| 127 | | Do. Cantonment ... ... | 8,376 | 33295·90 | | P. 67 R. ..... | 57 1 | 124 1 | | 124 | 96 | 23 | 119 | 1 | | 95·97 | ... | 14·21 | 194 | 23·16 | ... | ... |
| 128 | | Pálanpur ... ... ... | 184,581 | 80·75 | 3 | P. 3,111 R. 100 | 2,964 80 | 6,075 180 | 2,085 | 6,086 | 3,821 | 1,696 | 5,557 | 180 | 118 | 91·47 | 65·56 | 30·75 | 6,490 | 35·16 | ... | ... |
| 129 | | Rádhanpur ... ... ... | 98,129 | 85·33 | 2 | P. 1,683 R. 92 | 1,637 81 | 3,320 173 | 1,746 | 3,342 | 2,059 | 1,080 | 3,175 | 176 | 153 | 95·63 | 88·44 | 33·91 | 3,354 | 34·18 | ... | ... |
| 130 | | In 3 other States ... ... | 235,571 | 63·67 | 3 | P. 3,599 R. 109 | 3,507 136 | 7,106 245 | 2,450 | 7,108 | 3,978 | 2,808 | 6,870 | 245 | 179 | 96·68 | 73·06 | 29·72 | 8,460 | 35·91 | ... | ... |
| | | Total ... | 576,478 | 72·06 | 9 | P. 9,518 R. 333 | 9,104 314 | 18,622 647 | 2,141 | 18,658 | 11,337 | 6,054 | 17,551 | 650 | 482 | 94·25 | 74·50 | 31·28 | 20,373 | 33·34 | ... | ... |
| | TOTALS BY ESTABLISHMENTS IN WESTERN GUJARÁT CIRCLE. | | | | | | | | | | | | | | | | | | | | | |
| | | Government ... ... ... | 126,019 | 110·98 | 2 | P. 2,047 R. 199 | 1,929 50 | 3,976 249 | 2,112 | 3,985 | 2,514 | 1,182 | 3,718 | 249 | 137 | 93·51 | 55·02 | 30·59 | 4,543 | 36·05 | ... | ... |
| | | Native State ... ... ... | 2,794,358 | 106·98 | 43 | P. 50,226 R. 2,068 | 48,136 1,403 | 98,362 3,471 | 2,368 | 98,585 | 57,270 | 33,804 | 91,742 | 3,474 | 2,230 | 93·27 | 64·25 | 33·63 | 99,570 | 35·63 | ... | ... |
| | | Grand Total ... | 2,920,377 | 107·14 | 45 | P. 52,273 R. 2,267 | 50,065 1,453 | 102,338 3,720 | 2,357 | 102,570 | 59,784 | 34,986 | 95,460 | 3,723 | 2,367 | 93·28 | 63·63 | 33·50 | 104,113 | 35·65 | ... | ... |
| | THE SIND REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | | | |
| | KARÁCHI COLLECTORATE— | | | | | | | | | | | | | | | | | | | | | |
| 131 | | Karáchi Town ... ... ... | 68,332 | 3,416·60 | 2 | P. 1,999 R. 1,195 | 1,900 400 | 3,899 1,595 | 2,747 | 3,965 | 3,246 | 477 | 3,858 | 1,598 | 1,199 | 98·95 | 75·17 | 74·01 | 4,204 | 61·52 | 11 | 0·16 |
| 132 | | Tatta Town ... ... ... | 3,830 | ... | 1 | P. 74 R. 7 | 67 ... | 141 7 | 148 | 144 | 79 | 45 | 127 | 7 | 5 | 90·07 | 71·43 | 14·95 | 7 | 0·79 | ... | ... |
| 133 | | In the 14 Rural Circles, Local Fund ... ... ... ... | 401,526 | 29·11 | 10 | P. 5,030 R. 515 | 4,287 699 | 9,317 1,214 | 1,053 | 9,370 | 4,643 | 3,243 | 8,041 | 1,214 | 695 | 86·30 | 57·25 | 21·76 | 13,035 | 32·46 | 184 | 0·49 |
| | | Total ... | 478,688 | 33·91 | 13 | P. 7,103 R. 1,717 | 6,254 1,099 | 13,357 2,816 | 1,244 | 13,479 | 7,968 | 3,765 | 12,026 | 2,819 | 1,899 | 90·04 | 67·44 | 29·09 | 17,246 | 36·03 | 195 | |

## Statement No. I., showing Particulars of Vaccination, &c.—*concluded.*

| Number. | Circles and Districts. | Population of Districts according to Census of 1881. | Average Population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons Vaccinated. | | | Average Number of Persons Vaccinated by each Vaccinator. | Primary Vaccinations. | | | | Re-vaccinations. | | Percentage of successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all Ages. | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | THE SIND REGISTRATION DISTRICT—*continued.* | | | | Males. | Females. | Total. | | | | | | | | | | | | | | |
| | HYDERABAD COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 134 | Hyderabad Town ... ... | 45,195 | ... | 1 | P. 749 R. 440 | 580 7 | 1,329 447 | 1,776 | 1,329 | 1,131 | 157 | 1,322 | 447 | 336 | 99·47 | 75·17 | 36·71 | 1,728 | 38·23 | 101 | 2·23 |
| 135 | In the 13 Rural Circles, Local Fund ... ... ... ... | 709,429 | 78·57 | 13 | P. 11,686 R. 766 | 10,094 404 | 21,780 1,170 | 1,765 | 21,809 | 14,100 | 6,237 | 20,527 | 1,170 | 701 | 94·25 | 59·91 | 29·92 | 21,135 | 29·79 | 156 | 0·22 |
| | Total ... | 754,624 | 83·57 | 14 | P. 12,435 R. 1,206 | 10,674 411 | 23,109 1,617 | 1,766 | 23,138 | 15,231 | 6,394 | 21,849 | 1,617 | 1,037 | 94·55 | 64·13 | 30·33 | 22,863 | 30·30 | 257 | 0·34 |
| | THAR AND PÁRKAR— | | | | | | | | | | | | | | | | | | | | |
| 136 | Umarkot Town, Local Fund ... | 2,828 | ... | ... | P. 26 R. 5 | 12 6 | 38 11 | 49 | 38 | 16 | 22 | 38 | 11 | 6 | 100 | 54·55 | 15·56 | 116 | 41·02 | 1 | 0·35 |
| 137 | In the 7 Rural Circles, do. ... | 200,516 | 15·75 | 7 | P. 4,964 R. 482 | 4,268 1,179 | 9,232 1,661 | 1,556 | 9,240 | 4,673 | 4,078 | 8,932 | 1,661 | 1,164 | 96·75 | 70·08 | 50·35 | 11,286 | 56·28 | 18 | 0·09 |
| | Total ... | 203,344 | 15·97 | 7 | P. 4,990 R. 487 | 4,280 1,185 | 9,270 1,672 | 1,563 | 9,278 | 4,689 | 4,100 | 8,970 | 1,672 | 1,170 | 96·76 | 69·98 | 49·87 | 11,402 | 56·07 | 19 | 0·09 |
| | SHIKÁRPUR COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 138 | Shikárpur Town ... .. | 42,496 | 4,473·26 | 1 | P. 683 R. 521 | 633 ... | 1,316 521 | 1,837 | 1,320 | 1,078 | 101 | 1,184 | 521 | 284 | 89·97 | 54·51 | 34·54 | 1,733 | 40·78 | 8 | 0·19 |
| 139 | Sukkur do. ... ... | 27,389 | 9,129·66 | 2 | P. 937 R. 53 | 822 432 | 1,759 485 | 1,122 | 1,759 | 1,532 | 160 | 1,699 | 485 | 403 | 96·59 | 83·09 | 76·75 | 2,053 | 74·95 | 8 | 0·29 |
| 140 | Lárkhána do. ... ... | 13,188 | 2,198· | 1 | P. 247 R. 17 | 242 9 | 489 26 | 515 | 489 | 367 | 15 | 384 | 26 | 3 | 78·53 | 11·54 | 29·34 | 518 | 39·28 | 1 | 0·8 |
| 141 | Rohri do. ... .. | 10,224 | 58,422·86 | 1 | P. 254 R. 59 | 227 33 | 481 92 | 573 | 483 | 421 | 18 | 440 | 92 | 35 | 91·48 | 38·04 | 46·46 | 159 | 15·55 | ... | ... |
| 142 | In the 14 Rural Circles, Local Fund ... ... ... ... | 739,689 | 75·48 | 16 | P. 13,744 R. 1,053 | 12,092 2,301 | 25,836 3,354 | 1,824 | 25,913 | 21,944 | 2,558 | 24,606 | 3,356 | 1,873 | 95·24 | 55·84 | 35·80 | 27,823 | 37·61 | 131 | 0·18 |
| | Total ... | 832,986 | 84·92 | 21 | P. 15,865 R. 1,703 | 14,016 2,775 | 29,881 4,478 | 1,636 | 29,964 | 25,342 | 2,852 | 28,313 | 4,480 | 2,598 | 94·75 | 58·02 | 37·11 | 32,286 | 38·76 | 148 | 0·18 |
| | UPPER SIND FRONTIER— | | | | | | | | | | | | | | | | | | | | |
| 143 | Jacobabad Town and Cantonment, Local Fund ... ... | 11,352 | ... | ... | P. 66 R. 4 | 75 2 | 141 6 | 147 | 141 | 111 | 16 | 128 | 6 | 5 | 90·78 | 83·33 | 11·72 | 103 | 9·07 | 1 | 0·09 |
| 144 | In the 4 Rural Circles, Local Fund ... ... ... ... | 132,829 | 56·99 | 4 | P. 2,909 R. 330 | 2,577 352 | 5,486 682 | 1,542 | 5,521 | 3,972 | 934 | 4,941 | 682 | 470 | 90·07 | 68·91 | 40·74 | 6,509 | 49·00 | 19 | 0·14 |
| | Total ... | 144,181 | 61·86 | 4 | P. 2,975 R. 334 | 2,652 354 | 5,627 688 | 1,579 | 5,662 | 4,083 | 950 | 5,069 | 688 | 475 | 90·08 | 69·04 | 38·45 | 6,612 | 45·86 | 20 | 0·14 |
| | NATIVE STATE— | | | | | | | | | | | | | | | | | | | | |
| 145 | Khairpur State... ... ... | 129,153 | 21·14 | 3 | P. 1,542 R. 12 | 1,215 3 | 2,757 15 | 924 | 2,757 | 1,871 | 728 | 2,709 | 15 | 3 | 98·26 | 20·00 | 21·00 | 3,628 | 28·09 | ... | ... |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TOTALS BY ESTABLISHMENTS IN SIND REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | | |
| | Municipal ... ... ... ... | 206,824 | 5,347·74 | 9 | P. 4,943<br>R. 2,292 | 4,471<br>881 | 9,414<br>3,173 | 1,399 | 9,489 | 7,854 | 973 | 9,014 | 3,176 | 2,265 | 95·75 | 71·38 | 54·53 | 10,401 | 50·29 | 131 | 0·63 |
| | Local Fund ... ... ... ... | 2,206,999 | 46·00 | 50 | P. 38,425<br>R. 3,155 | 33,405<br>4,943 | 71,830<br>8,098 | 1,599 | 72,032 | 49,459 | 17,088 | 67,213 | 8,100 | 4,914 | 93·57 | 60·68 | 32·68 | 80,007 | 36·25 | 508 | 0·23 |
| | Native State... ... ... ... | 129,153 | 21·14 | 3 | P. 1,542<br>R. 12 | 1,215<br>3 | 2,757<br>15 | 924 | 2,757 | 1,871 | 728 | 2,709 | 15 | 3 | 98·26 | 20·00 | 21·00 | 3,628 | 28·09 | ... | ... |
| | Grand Total ... | 2,542,976 | 46·99 | 62 | P. 44,910<br>R. 5,459 | 39,091<br>5,827 | 84,001<br>11,286 | 1,537 | 84,278 | 59,184 | 18,789 | 78,936 | 11,291 | 7,182 | 93·97 | 63·64 | 33·37 | 94,036 | 36·98 | 639 | 0·25 |
| | THE BARODA CIRCLE. | | | | | | | | | | | | | | | | | | | | |
| 146 | Baroda States ... ... ... | 2,185,005 | 254·96 | 36 | P. 36,341<br>R. 829 | 32,905<br>187 | 69,246<br>1,016 | 1,952 | 69,420 | 58,310 | 7,833 | 66,469 | 1,016 | 756 | 95·98 | 74·41 | 30·77 | 66,575 | 30·47 | ... | ... |
| | THE CUTCH CIRCLE. | | | | | | | | | | | | | | | | | | | | |
| 147 | Cutch States ... ... ... | 512,084 | 78·78 | 17 | P. 10,890<br>R. 161 | 10,588<br>97 | 21,478<br>258 | 1,279 | 21,538 | 14,364 | 6,430 | 21,227 | 258 | 201 | 98·83 | 77·91 | 41·84 | 21,211 | 41·42 | ... | ... |
| | ADEN. | | | | | | | | | | | | | | | | | | | | |
| 148 | Aden Municipality... ... ... | 34,860 | 3,005·17 | 2 | P. 653<br>R. 4 | 260<br>6 | 913<br>10 | 923 | 913 | 82 | 177 | 704 | 10 | 4 | 77·11 | 40·00 | 20·31 | 686 | 19·68 | ... | ... |
| 149 | Khelat ... ... ... ... | ... | ... | ... | P. 13<br>R. 10 | 23<br>8 | 36<br>18 | 54 | 36 | 18 | 22 | 36 | 18 | 18 | 100· | 100· | ... | 216 | ... | ... | ... |
| | TOTAL OF THE BOMBAY PRESIDENCY. BY ESTABLISHMENTS. | | | | | | | | | | | | | | | | | | | | |
| | Government ... ... | 126,019 | 110·98 | 2 | P. 2,047<br>R. 199 | 1,929<br>50 | 3,976<br>249 | 2,112 | 3,985 | 2,514 | 1,182 | 3,718 | 249 | 137 | 93·51 | 55·02 | 30·59 | 4,543 | 36·05 | ... | ... |
| | Municipal... ... ... | 1,899,371 | 14,743·27 | 51 | P. 34,955<br>R. 8,404 | 32,351<br>2,351 | 67,306<br>10,755 | 1,531 | 67,513 | 48,632 | 12,762 | 63,367 | 10,761 | 5,128 | 94·15 | 47·68 | 36·06 | 62,161 | 33·42 | 622 | 0·33 |
| | Cantonment ... ... | 40,350 | 4,593·38 | 2 | P. 1,189<br>R. 411 | 855<br>27 | 2,044<br>438 | 1,241 | 2,044 | 1,487 | 507 | 2,006 | 438 | 279 | 98·14 | 63·69 | 56·63 | 2,059 | 51·03 | 9 | 0·22 |
| | Local Fund ... .. | 14,571,714 | 117·64 | 284 | P. 262,130<br>R. 19,869 | 247,176<br>10,175 | 509,306<br>30,044 | 1,899 | 510,247 | 341,141 | 135,579 | 482,945 | 30,060 | 18,750 | 94·82 | 62·41 | 34·43 | 470,576 | 32·21 | 4,288 | 0·29 |
| | Native State ... ... | 8,978,074 | 112·64 | 170 | P. 158,566<br>R. 9,214 | 149,842<br>3,874 | 308,408<br>13,088 | 1,891 | 309,174 | 199,571 | 90,270 | 294,002 | 13,091 | 9,347 | 95·33 | 71·42 | 33·79 | 294,497 | 32·80 | ... | ... |
| | In British Territory ... | 16,503,663 | 132·95 | 339 | P. 297,981<br>R. 28,808 | 280,120<br>12,556 | 578,101<br>41,364 | 1,827 | 579,248 | 390,910 | 148,677 | 547,787 | 41,386 | 24,204 | 94·76 | 58·51 | 34·66 | 534,314 | 32·38 | 4,919 | 0·30 |
| | In Native State Territory | 9,111,865 | 112·46 | 170 | P. 160,906<br>R. 9,289 | 152,033<br>3,921 | 312,939<br>13,210 | 1,919 | 313,715 | 202,435 | 91,623 | 298,251 | 13,213 | 9,437 | 95·31 | 71·44 | 33·77 | 299,522 | 32·87 | ... | ... |
| | GRAND TOTAL ... | 25,615,528 | 124·86 | 509 | P. 458,887<br>R. 38,097 | 432,153<br>16,477 | 891,040<br>54,574 | 1,857 | 892,963 | 593,345 | 240,300 | 846,038 | 54,599 | 33,641 | 94·95 | 61·64 | 34·34 | 833,836 | 32·55 | 4,919 | 0·1 |

Statement No. II., showing the Cost of the Department

| No. | Circles and Districts. | Establishments. | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Deputy Sanitary Commissioners. | Superintendents of Vaccination. | Inspectors of Sanitation and Vaccination. | | | Assistant Superintendents of Vaccination. | | | Clerks and Kárkúns. | Vaccinators. | | | | | | | | Havál-dárs and Peons. |
| | | | | 1st Class. | 2nd Class. | 3rd Class. | 1st Class. | 2nd Class. | 3rd Class. | | Government. | Municipal. | Cantonment. | Local Fund. | | | | Native States. | |
| | | | | | | | | | | | | | | 1st Class. | 2nd Class. | 3rd Class. | Candidates. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | THE WESTERN REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | |
| | Administrative Charges | 1 | .. | 1 | 1 | 4 | .. | .. | .. | 2 | .. | .. | .. | .. | .. | .. | .. | .. | 10 |
| 1 | Khándesh Collectorate | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | 1 | 7 | 17 | 2 | 1 | 27 |
| 2 | Násik do. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | 1 | 1 | 5 | 6 | .. | .. | 14 |
| 3 | Thána do. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 3 | .. | 1 | 5 | 6 | 1 | 1 | 16 |
| 4 | Kolába do. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | .. | 1 | 3 | 7 | 1 | 2 | 12 |
| | Total | 1 | .. | 1 | 1 | 4 | .. | .. | .. | 2 | .. | 8 | 1 | 4 | 20 | 36 | 4 | 4 | 79 |
| | THE PRESIDENCY CIRCLE. | | | | | | | | | | | | | | | | | | |
| | Administrative Charges | .. | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 5 | Bombay | .. | .. | .. | .. | .. | 1 | .. | .. | 17 | .. | 9 | .. | .. | .. | .. | .. | .. | 3 |
| | Total | .. | 1 | .. | .. | .. | 1 | .. | .. | 17 | .. | 9 | .. | .. | .. | .. | .. | .. | 3 |
| | THE CENTRAL REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | |
| | Administrative Charges | 1 | .. | 1 | 1 | 4 | .. | .. | .. | 2 | .. | .. | .. | .. | .. | .. | .. | .. | 10 |
| 6 | Ahmedabad Collectorate | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | 1 | 5 | 8 | 1 | .. | 15 |
| 7 | Poona do. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | 1 | 1 | 5 | 8 | 1 | .. | 17 |
| 8 | Sholápur do. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 3 | .. | 1 | 4 | 6 | 1 | 1 | 15 |
| 9 | Sátára do. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | 1 | 5 | 12 | 2 | 6 | 25 |
| 10 | Ratnágiri do. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | 1 | 6 | 8 | 1 | 3 | 18 |
| | Total | 1 | .. | 1 | 1 | 4 | .. | .. | .. | 2 | .. | 8 | 1 | 5 | 25 | 42 | 6 | 10 | 100 |
| | THE SOUTHERN REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | |
| | Administrative Charges | 1 | .. | 1 | 1 | 2 | .. | .. | .. | 2 | .. | .. | .. | .. | .. | .. | .. | .. | 8 |
| 11 | Belgaum Collectorate | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | .. | 1 | 3 | 12 | 1 | .. | 17 |
| 12 | Dhárwár do. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 3 | .. | 1 | 5 | 12 | 1 | 1 | 22 |
| 13 | Bijápur do. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | .. | 1 | 3 | 8 | 1 | 2 | 14 |
| 14 | Kánara do. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | 1 | 3 | 10 | 1 | .. | 14 |
| 15 | Kolhápur States | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .. | .. | .. | .. | .. | 2 | 13 | 14 |
| 16 | Southern Marátha Jághirs | .. | .. | .. | .. | 2 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 16 | 17 |
| | Total | 1 | .. | 1 | 1 | 4 | .. | .. | 1 | 2 | .. | 9 | .. | 4 | 14 | 42 | 6 | 32 | 106 |
| | THE EASTERN GUJARAT REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | |
| | Administrative Charges | 1 | .. | 1 | 1 | 3 | .. | .. | .. | 2 | .. | .. | .. | .. | .. | .. | .. | .. | 9 |
| 17 | Surat Collectorate | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | .. | 1 | 3 | 5 | 1 | 3 | 14 |
| 18 | Broach do. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | 1 | 1 | 3 | 1 | .. | 6 |
| 19 | Kaira do. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | 1 | 3 | 6 | 1 | 1 | 13 |
| 20 | Panch Mahás | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 2 | 3 | 1 | .. | 6 |
| 21 | Ahmedabad Collectorate | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 3 | .. | 1 | 3 | 3 | 1 | .. | 14 |
| 22 | Mahi Kántha Agency | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 8 | 8 |
| 23 | Rewa Kántha do. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 13 | 13 |
| | Total | 1 | .. | 1 | 1 | 3 | .. | .. | .. | 2 | .. | 7 | .. | 5 | 12 | 25 | 5 | 25 | 83 |
| | THE WESTERN GUJARAT CIRCLE. | | | | | | | | | | | | | | | | | | |
| | Administrative Charges | .. | .. | .. | .. | .. | .. | 1 | 1 | 2 | .. | .. | .. | .. | .. | .. | .. | .. | 6 |
| 24 | Káthiáwár | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .. | .. | .. | 4 | 35 | 36 |
| 25 | Pálanpur | .. | .. | .. | .. | .. | .. | .. | 1 | .. | 1 | .. | .. | .. | .. | .. | 1 | 8 | 10 |
| | Total | .. | .. | .. | .. | .. | .. | 1 | 2 | 2 | 2 | .. | .. | .. | .. | .. | 5 | 43 | 52 |
| | THE SIND REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | |
| | Administrative Charges | 1 | 1 | 1 | 1 | 4 | .. | .. | .. | 2 | .. | .. | .. | .. | .. | .. | .. | .. | 10 |
| 26 | Karáchi Collectorate | .. | .. | .. | .. | .. | .. | .. | .. | 3 | .. | 3 | .. | 1 | 4 | 5 | 1 | .. | 10 |
| 27 | Hyderabad do. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | 2 | 5 | 6 | 1 | .. | 14 |
| 28 | Thar and Párkar | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 2 | 4 | 1 | .. | 7 |
| 29 | Shikárpur Collectorate | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 5 | .. | 1 | 6 | 9 | 1 | 3 | 23 |
| 30 | Upper Sind Frontier | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 1 | 2 | 1 | .. | 4 |
| | Total | 1 | 1 | 1 | 1 | 4 | .. | .. | .. | 5 | .. | 9 | .. | 6 | 18 | 26 | 5 | 3 | 68 |
| | THE BARODA CIRCLE. | | | | | | | | | | | | | | | | | | |
| 31 | Baroda States | .. | .. | 1 | 1 | 2 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 8 | 36 | 40 |
| | THE CUTCH CIRCLE. | | | | | | | | | | | | | | | | | | |
| 32 | Cutch States | .. | 1 | .. | .. | .. | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 17 | 19 |
| | IN THE ADEN MUNICIPALITY. | | | | | | | | | | | | | | | | | | |
| 33 | Aden | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | .. | .. | .. | .. | .. | .. | 1 |
| 34 | KHELAT | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| | TOTAL FOR THE BOMBAY PRESIDENCY. | 5 | 3 | 6 | 6 | 21 | 2 | 1 | 3 | 32 | 2 | 52 | 2 | 24 | 89 | 171 | 40 | 170 | 551 |

## DEPARTMENT.

in the Bombay Presidency during the year 1889-90.

| Expenditure. | | | | Paid from | | | | | Total. | Number of all successful Vaccinations and Re-vaccinations. | Average Cost of each successful Case. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pay of Establishment. | Travelling Allowances. | Contingencies. | Total Cost. | Provincial Funds. | Local Funds. | Municipal Funds. | Cantonment Funds. | Native State Funds. | | | |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | | Rs. a. p. |
| 17,505 15 8 | 2,101 14 2 | 660 5 3 | 20,268 3 1 | 20,268 3 1 | .... | .... | .... | .... | 20,268 3 1 | .... | .... |
| 7,419 0 0 | 1 0 0 | 667 10 3 | 8,087 14 3 | .... | 7,466 14 9 | 324 0 0 | .... | 296 11 6 | 8,087 10 3 | 39,360 | 0 3 3 |
| 3,933 0 5 | 35 7 0 | 252 3 4 | 4,220 10 9 | .... | 3,560 5 4 | 571 15 0 | 88 6 5 | .... | 4,220 10 9 | 20,887 | 0 3 3 |
| 4,426 1 1 | 23 8 0 | 367 1 7 | 4,816 10 8 | .... | 3,830 3 6 | 618 5 7 | .... | 368 1 7 | 4,816 10 8 | 25,379 | 0 3 0 |
| 3,690 15 2 | .... | 268 7 1 | 3,959 6 3 | .... | 3,206 14 0 | 247 12 3 | .... | 507 12 0 | 3,959 6 3 | 16,020 | 0 3 11 |
| 36,975 0 4 | 2,161 13 2 | 2,215 11 6 | 41,352 9 0 | 20,268 3 1 | 18,061 5 7 | 1,762 0 10 | 88 6 5 | 1,172 9 1 | 41,352 9 0 | 101,646 | 0 6 6 |
| 4,200 0 0 | 360 0 0 | 16 8 0 | 4,576 8 0 | 4,576 8 0 | .... | .... | .... | .... | 4,576 8 0 | .... | .... |
| 9,557 4 5 | .... | 7,628 11 2 | 17,185 15 7 | .... | .... | 17,185 15 7 | .... | .... | 17,185 15 7 | 18,658 | 0 14 9 |
| 13,757 4 5 | 360 0 0 | 7,645 3 2 | 21,762 7 7 | 4,576 8 0 | .... | 17,185 15 7 | .... | .... | 21,762 7 7 | 18,658 | 1 2 8 |
| 16,697 7 3 | 2,238 9 0 | 755 5 0 | 19,686 5 3 | 19,686 5 3 | .... | .... | .... | .... | 19,686 5 3 | .... | .... |
| 4,288 2 1 | .... | 163 15 3 | 4,422 1 4 | .... | 4,653 10 10 | 368 6 6 | .... | .... | 4,422 1 4 | 23,612 | 0 2 6 |
| 5,169 12 1 | 11 10 0 | 732 14 0 | 5,914 4 1 | .... | 4,091 14 7 | 1,191 7 6 | 630 14 0 | .... | 5,914 4 1 | 31,464 | 0 3 0 |
| 4,222 6 7 | .... | 206 9 3 | 4,428 15 10 | .... | 3,161 1 0 | 959 7 0 | .... | 308 7 10 | 4,428 15 10 | 26,290 | 0 2 8 |
| 6,538 7 11 | .... | 353 14 0 | 6,892 5 11 | .... | 5,199 4 5 | 314 0 0 | .... | 1,379 1 6 | 6,892 5 11 | 48,442 | 0 2 4 |
| 5,058 8 7 | .... | 237 8 6 | 5,296 1 1 | .... | 4,429 6 7 | 122 10 6 | .... | 744 0 0 | 5,296 1 1 | 39,048 | 0 2 2 |
| 41,944 12 6 | 2,245 3 0 | 2,450 2 0 | 46,640 1 6 | 19,686 5 3 | 20,935 5 5 | 2,955 15 6 | 630 14 0 | 2,431 9 4 | 46,640 1 6 | 173,385 | 0 4 4 |
| 16,172 0 0 | 3,460 12 1 | 773 1 4 | 20,405 13 5 | 20,405 13 5 | .... | .... | .... | .... | 20,405 13 5 | .... | .... |
| 4,890 9 2 | 2 11 6 | 416 11 0 | 5,309 15 8 | .... | 4,755 10 8 | 554 5 0 | .... | .... | 5,309 15 8 | 37,256 | 0 2 3 |
| 5,976 10 7 | .... | 700 10 10 | 6,677 5 5 | .... | 5,579 0 4 | 818 0 4 | .... | 280 4 9 | 6,677 5 5 | 32,061 | 0 3 4 |
| 4,225 9 10 | .... | 352 10 9 | 4,578 4 7 | .... | 3,837 12 7 | 319 1 9 | .... | 421 6 3 | 4,578 4 7 | 38,791 | 0 1 11 |
| 4,155 0 4 | .... | 155 5 1 | 4,310 5 5 | .... | 4,180 3 5 | 130 2 0 | .... | .... | 4,310 5 5 | 15,076 | 0 4 4 |
| 4,706 4 1 | .... | 232 8 7 | 4,938 12 8 | .... | .... | .... | .... | 4,938 12 8 | 4,938 12 8 | 30,995 | 0 2 7 |
| 5,031 5 4 | 123 3 0 | 189 11 6 | 5,344 3 10 | .... | .... | .... | .... | 5,344 3 10 | 5,344 3 10 | 20,630 | 0 4 2 |
| 45,157 7 4 | 3,586 10 7 | 2,820 11 1 | 51,564 13 0 | 20,405 13 5 | 18,352 11 0 | 1,821 9 1 | .... | 10,984 11 6 | 51,564 13 0 | 175,709 | 0 4 8 |
| 15,543 6 6 | 2,144 10 5 | 827 3 6 | 18,515 4 5 | 18,515 4 5 | .... | .... | .... | .... | 18,515 4 5 | .... | .... |
| 3,968 5 4 | 7 11 6 | 495 11 1 | 4,471 11 11 | .... | 2,976 5 2 | 701 10 0 | .... | 793 12 9 | 4,471 11 11 | 26,392 | 0 2 9 |
| 1,711 0 6 | .... | 232 10 1 | 1,943 10 7 | .... | 1,681 8 7 | 262 2 0 | .... | .... | 1,943 10 7 | 13,093 | 0 2 4 |
| 3,356 15 4 | 8 15 6 | 444 7 5 | 3,810 6 3 | .... | 3,226 12 0 | 339 5 6 | .... | 244 4 9 | 3,810 6 3 | 27,997 | 0 2 2 |
| 1,718 4 7 | .... | 226 13 0 | 1,945 1 7 | .... | 1,945 1 7 | .... | .... | .... | 1,945 1 7 | 10,023 | 0 3 1 |
| 4,117 0 11 | 4 6 0 | 536 3 8 | 4,657 10 7 | .... | 3,802 0 2 | 855 10 5 | .... | .... | 4,657 10 7 | 27,670 | 0 2 8 |
| 2,574 0 0 | .... | 146 0 6 | 2,720 0 6 | .... | .... | .... | .... | 2,720 0 6 | 2,720 0 6 | 13,335 | 0 3 3 |
| 3,318 7 4 | .... | 210 10 2 | 3,529 1 6 | .... | .... | .... | .... | 3,529 1 6 | 3,529 1 6 | 17,931 | 0 3 2 |
| 36,307 8 6 | 2,165 11 5 | 3,119 11 5 | 41,592 15 4 | 18,515 4 5 | 13,631 11 6 | 2,158 11 11 | .... | 7,287 3 6 | 41,592 15 4 | 1,36,441 | 0 4 11 |
| 4,131 12 0 | 624 11 3 | 556 3 0 | 5,362 10 2 | 5,362 10 3 | .... | .... | .... | .... | 5,362 10 3 | .... | .... |
| 11,476 0 8 | 1,866 7 0 | 1,447 1 6 | 14,789 9 2 | 252 0 0 | .... | .... | .... | 14,537 9 2 | 14,789 9 2 | 79,794 | 0 3 0 |
| 3,422 11 1 | .... | 302 2 5 | 3,724 13 6 | 126 0 0 | .... | .... | 142 15 0 | 3,455 14 6 | 3,724 13 6 | 18,033 | 0 3 4 |
| 19,080 7 9 | 2,491 2 3 | 2,305 6 11 | 23,877 0 11 | 5,740 10 3 | .... | .... | 142 15 0 | 17,993 7 8 | 23,877 0 11 | 97,827 | 0 3 11 |
| 16,893 10 11 | 4,078 9 9 | 699 14 4 | 21,672 3 0 | 19,867 0 8 | .... | 1,805 2 4 | .... | .... | 21,672 3 0 | .... | .... |
| 3,540 4 6 | 748 11 3 | 157 9 10 | 4,446 9 7 | .... | 3,557 3 10 | 889 5 9 | .... | .... | 4,446 9 7 | 13,925 | 0 5 |
| 4,140 3 10 | 791 7 4 | 224 5 5 | 5,156 0 7 | .... | 4,802 3 5 | 353 13 2 | .... | .... | 5,156 0 7 | 22,886 | 0 3 7 |
| 2,046 5 8 | 466 8 8 | 136 1 1 | 2,648 15 5 | .... | 2,648 15 5 | .... | .... | .... | 2,648 15 5 | 10,140 | 0 4 3 |
| 6,925 8 5 | 1,000 2 3 | 369 0 3 | 8,294 10 11 | .... | 5,680 10 11 | 1,297 0 0 | .... | 1,317 0 0 | 8,294 10 11 | 33,623 | 0 3 5 |
| 1,188 6 8 | 282 9 4 | 80 9 8 | 1,551 9 3 | .... | 1,551 9 3 | .... | .... | .... | 1,551 9 3 | 5,544 | 0 4 6 |
| 34,734 8 0 | 7,368 0 7 | 1,667 8 2 | 43,770 0 9 | 19,867 0 8 | 18,240 10 10 | 4,345 5 3 | .... | 1,317 0 0 | 43,770 0 9 | 86,118 | 0 8 2 |
| 12,312 15 4 | 173 15 11 | 334 3 1 | 12,821 2 4 | .... | .... | .... | .... | 12,821 2 4 | 12,821 2 4 | 67,225 | 0 3 1 |
| 3,600 4 2 | 3,537 15 11 | 5 6 8 | 7,143 10 9 | .... | ..... | .... | .... | 7,143 10 9 | 7,743 10 9 | 21,428 | 0 5 4 |
| 496 1 0 | .... | 35 5 0 | 531 6 0 | .... | .... | 531 6 0 | .... | .... | 531 6 0 | 708 | 0 12 0 |
| .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 54 | .... |
| 2,44,366 5 4 | 24,090 8 10 | 22,599 5 0 | 2,91,056 3 2 | 1,09,059 13 1 | 89,221 12 4 | 30,761 0 2 | 862 3 5 | 61,151 6 2 | 2,91,056 3 2 | 879,679 | 0 5 4 |



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# B.—DISPENSARY VACCINATION.

Statement No. III, showing Dispensary Vaccination in the Bombay Presidency during the year 1889-90.

| Districts. | | Number of Dispensaries in each District to which a Vaccinator is attached. | Average Number of Vaccinators attached to Dispensaries during the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. | Primary Vaccination. | | | | Re-vaccination. | | Percentages of Successful Cases. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. |
| | | | | | | | | | Under 1 year. | 1 and under 6. | Total of all Ages. | | | | |
| 1 | | 2 | 3 | 4 | | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| | THE WESTERN REGISTRATION DISTRICT. | | | Males. | Females. | Total. | | | | | | | | | |
| Khándesh Collectorate. | Dharangaon ... | ... | ... | P. 30<br>R. 3 | 35<br>... | 65<br>3 | 68 | 65 | 41 | 16 | 57 | 3 | 3 | 87·69 | 100· |
| Thána Collectorate. | Mátherán ... ... | ... | ... | 5 | 6 | 11 | 11 | 11 | 2 | 6 | 8 | ... | ... | 72·73 | ... |
| | Kurla ... .. | ... | ... | P. 43<br>R. 18 | 34<br>10 | 77<br>28 | 105 | 77 | 45 | 28 | 73 | 28 | 16 | 94·81 | 57·14 |
| | Total ... | ... | ... | P. 48<br>R. 18 | 40<br>10 | 88<br>28 | 58 | 88 | 47 | 34 | 81 | 28 | 16 | 92·05 | 57·14 |
| | TOTAL FOR THE WESTERN REGISTRATION DISTRICT ... ... | ... | ... | P. 78<br>R. 21 | 75<br>10 | 153<br>31 | 61 | 153 | 88 | 50 | 138 | 31 | 19 | 90·20 | 61·29 |
| | THE PRESIDENCY CIRCLE. | | | | | | | | | | | | | | |
| Bombay City. | Her Majesty's House of Correction ... | ... | ... | R. 72 | ... | 72 | 72 | ... | ... | ... | ... | 72 | 47 | ... | 65·28 |
| | THE CENTRAL REGISTRATION DISTRICT. | | | | | | | | | | | | | | |
| Native States. | Sávantvádi... ... | ... | ... | P. 179<br>R. 55 | 166<br>3 | 345<br>58 | 134 | 345 | 219 | 118 | 342 | 58 | 21 | 99·13 | 36·21 |
| | THE SOUTHERN REGISTRATION DISTRICT. | | | | | | | | | | | | | | |
| Southern Maratha Jághirs. | Sángli ... ... | ... | ... | P. 285<br>R. 40 | 264<br>2 | 549<br>42 | 591 | 550 | 186 | 290 | 486 | 42 | 40 | 88·52 | 95·24 |
| | Sháhápur ... ... | ... | ... | P. 137<br>R. 18 | 124<br>7 | 261<br>25 | 286 | 261 | 119 | 77 | 196 | 25 | 5 | 75·09 | 20·00 |
| | Mangalvedha .. | ... | ... | P. 195<br>R. 43 | 229<br>5 | 424<br>48 | 472 | 426 | 305 | 62 | 371 | 52 | 41 | 87·50 | 85·42 |
| | Terdál .. ... | ... | ... | P. 133<br>R. 8 | 122<br>... | 255<br>8 | 263 | 255 | 82 | 159 | 243 | 8 | 8 | 95·29 | 100· |
| | Shirhatti ... ... | ... | ... | P. 58<br>R. 38 | 47<br>... | 105<br>38 | 143 | 108 | 80 | 9 | 89 | 40 | 11 | 84·76 | 28·95 |
| | Kavata ... .. | ... | ... | P. 37<br>R. 5 | 32<br>... | 69<br>5 | 74 | 69 | 49 | 13 | 62 | 5 | 5 | 89·86 | 100· |
| | Mudhol ... ... | ... | ... | 43 | 34 | 77 | 77 | 77 | 27 | 49 | 77 | ... | ... | 100· | ... |
| Bijápur Collectorate. | Indi ... ... ... | ... | ... | 3 | 3 | 6 | 6 | 6 | 2 | 4 | 6 | ... | ... | 100· | ... |
| | TOTAL FOR THE SOUTHERN REGISTRATION DISTRICT ... ... | ... | ... | P. 891<br>R. 152 | 855<br>14 | 1,746<br>166 | 239 | 1,752 | 850 | 663 | 1,530 | 172 | 110 | 87·63 | 66·27 |

## Statement No. III, showing Dispensary Vaccination, &c.—*continued.*

| Districts. | | Number of Dispensaries in each District to which a Vaccinator is attached. | Average Number of Vaccinators attached to Dispensaries during the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. | Primary Vaccination. | | | | Re-vaccination. | | Percentage of Successful Cases. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. |
| | | | | | | | | | Under 1 year. | 1 and under 6. | Total of all Ages. | | | | |
| 1 | | 2 | 3 | 4 | | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| | THE EASTERN GUJARÁT REGISTRATION DISTRICT. | | | Males. | Females. | Total. | | | | | | | | | |
| Surat Collectorate | Bulsár ... ... | ... | ... | P. 181 | 179 | 360 | 374 | 360 | 156 | 159 | 322 | 14 | 10 | 89·44 | 71·43 |
| | | | | R. 8 | 6 | 14 | | | | | | | | | |
| Kaira Collectorate | Kapadvanj... ... | ... | .. | P. 213 | 178 | 391 | 396 | 391 | 249 | 104 | 353 | 5 | ... | 90·28 | ... |
| | | | | R. 5 | ... | 5 | | | | | | | | | |
| | Kaira Jail ... ... | ... | ... | R. 13 | ... | 13 | 13 | ... | ... | ... | ... | 13 | 10 | ... | 76·92 |
| | Total ... | ... | ... | P. 213 | 178 | 391 | 204 | 391 | 249 | 104 | 353 | 18 | 10 | 90·28 | 55·56 |
| | | | | R. 18 | ... | 18 | | | | | | | | | |
| Ahmedabad Collectorate | Dholera ... .. | ... | ... | 126 | 111 | 237 | 237 | 237 | 77 | 143 | 223 | ... | ... | 94·09 | ... |
| | Khárághoda ... | ... | ... | 51 | 40 | 91 | 91 | 91 | 30 | 15 | 53 | ... | ... | 58·24 | ... |
| | Total .. | ... | ... | 177 | 151 | 328 | 164 | 328 | 107 | 158 | 276 | ... | ... | 84·15 | ... |
| Mahi Kántha States | Sádra ... ... | ... | ... | P. 69 | 65 | 134 | 136 | 134 | 75 | 16 | 96 | 2 | 2 | 71·64 | 100· |
| | | | | R. 1 | 1 | 2 | | | | | | | | | |
| | TOTAL FOR THE EASTERN GUJARÁT REGISTRATION DISTRICT. | ... | ... | P. 640 | 573 | 1,213 | 208 | 1,213 | 587 | 437 | 1,047 | 34 | 22 | 86·31 | 64·71 |
| | | | | R. 27 | 7 | 34 | | | | | | | | | |
| | THE WESTERN GUJARÁT CIRCLE. | | | | | | | | | | | | | | |
| Káthiáwar | Rájkot ... ... | ... | ... | P. 0 | 1 | 1 | 9 | 1 | 1 | ... | 1 | 8 | 1 | 100· | 12·50 |
| | | | | R. 8 | 8 | 8 | | | | | | | | | |
| | THE SIND REGISTRATION DISTRICT. | | | | | | | | | | | | | | |
| Karáchi Collectorate. | Keti Bandar ... | ... | ... | R. 1 | ... | 1 | 1 | ... | ... | ... | ... | 1 | 1 | ... | 100· |
| | Tátta... ... | ... | ... | ... 1 | 2 | 3 | 3 | 3 | ... | ... | ... | ... | ... | ... | ... |
| | Jerruck ... ... | ... | ... | P. 22 | 25 | 47 | 54 | 48 | 22 | 14 | 36 | 7 | 3 | 76·60 | 42·86 |
| | | | | R. 7 | ... | 7 | | | | | | | | | |
| | Total ... | ... | ... | P. 23 | 27 | 50 | 19 | 51 | 22 | 14 | 36 | 8 | 4 | 72·00 | 50·00 |
| | | | | R. 8 | ... | 8 | | | | | | | | | |
| Hyderabad Collectorate. | Tando Adam ... | ... | ... | P. 44 | 35 | 79 | 80 | 79 | 30 | 47 | 79 | 1 | ... | 100· | ... |
| | | | | R. 0 | 1 | 1 | | | | | | | | | |

## Statement No. III, showing Dispensary Vaccination, &c.—*concluded*.

| Districts. | Number of Dispensaries in each District to which a Vaccinator is attached. | Average Number of Vaccinators attached to Dispensaries during the Season. | Total Number of Persons vaccinated. | | | Average number of Persons vaccinated by each Vaccinator. | Primary Vaccination. | | | | Re-vaccination. | | Percentage of Successful Cases. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. |
| | | | | | | | | Under 1 year. | 1 and under 6. | Total of all Ages. | | | | |
| 1 | 2 | 3 | 4 | | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| THE SIND REGISTRATION DISTRICT—*continued.* | | | Males. | Females. | Total. | | | | | | | | | |
| Thar and Párkar. — Nagar Párkar | ... | ... | 10 | 13 | 23 | 23 | 23 | 16 | 6 | 22 | ... | ... | 95·65 | ... |
| Thar and Párkar. — Umarkot | ... | ... | 1 | 1 | 2 | 2 | 2 | 2 | ... | 2 | ... | ... | 100 | ... |
| Total | ... | ... | 11 | 14 | 25 | 12 | 25 | 18 | 6 | 24 | ... | ... | 96·00 | ... |
| Upper Sind Frontier. — Jacobabad | ... | ... | 140 | 100 | 240 | 240 | 240 | 145 | 45 | 192 | ... | ... | 80·00 | ... |
| Total for the Sind Registration District. | — | ... | P. 218<br>R. 8 | 176<br>1 | 394<br>9 | 58 | 395 | 215 | 112 | 331 | 9 | 4 | 84·01 | 44·44 |
| ADEN — Shaik Othman | ... | ... | 490 | 198 | 688 | 688 | 688 | 107 | 164 | 642 | ... | ... | 93·31 | ... |
| ADEN — Steamer Point | ... | ... | P. 249<br>R. 2 | 67<br>... | 316<br>2 | 318 | 316 | 27 | 56 | 216 | 2 | 1 | 68·35 | 50·00 |
| Total | ... | ... | P. 739<br>R. 2 | 265<br>... | 1,004<br>2 | 503 | 1,004 | 134 | 220 | 858 | 2 | 1 | 85·46 | 50·00 |
| BUSHIRE ... ... ... | ... | ... | 162 | 195 | 357 | 357 | 357 | 151 | 101 | 299 | ... | ... | 83·73 | ... |
| MUSKAT ... ... ... | ... | ... | 163 | 103 | 266 | 266 | 273 | 52 | 69 | 254 | ... | ... | 95·49 | ... |
| TOTAL FOR THE — BRITISH TERRITORY ... ... | ... | ... | P. 1,931<br>R. 129 | 1,322<br>17 | 3,253<br>146 | 170 | 3,261 | 1,152 | 973 | 2,831 | 146 | 91 | 87·00 | 62·33 |
| TOTAL FOR THE — NATIVE STATES... | ... | ... | P. 1,139<br>R. 216 | 1,087<br>18 | 2,226<br>234 | 189 | 2,232 | 1,145 | 797 | 1,969 | 240 | 134 | 88·45 | 57·26 |
| GRAND TOTAL FOR THE BOMBAY PRESIDENCY ... | ... | ... | P. 3,070<br>R. 345 | 2,409<br>35 | 5,479<br>380 | 178 | 5,493 | 2,297 | 1,770 | 4,800 | 386 | 225 | 87·61 | 59·21 |

*Comparative Statement No. IV, showing the Number of Persons Primarily Vaccinated and the Number of those Persons who were Successfully Vaccinated in each of the under-mentioned official years.*

| Establishment. | Persons primarily vaccinated. | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. |
| | Years ending 31st March. | | | | | | | | | | | | | | | | | | | |
| | 1881. | | 1882. | | 1883. | | 1884. | | 1885. | | 1886. | | 1887. | | 1888. | | 1889. | | 1890. | |
| Government ... ... ... | 4,130 | 3,980 | 5,563 | 5,497 | 5,266 | 5,225 | 6,400 | 6,165 | 4,397 | 4,249 | 4,947 | 4,545 | 4,461 | 4,183 | 3,894 | 3,653 | 4,768 | 4,543 | 3,976 | 3,718 |
| Municipal ... ... ... | 49,857 | 47,361 | 54,726 | 52,225 | 65,208 | 61,802 | 59,559 | 56,670 | 56,895 | 54,582 | 58,083 | 55,631 | 57,523 | 55,484 | 62,774 | 60,208 | 67,019 | 62,963 | 67,306 | 63,367 |
| Local Fund ... ... .. | 347,194 | 337,392 | 379,008 | 369,913 | 419,822 | 407,635 | 441,180 | 426,408 | 441,340 | 425,148 | 471,789 | 454,756 | 470,964 | 451,857 | 487,441 | 466,469 | 500,656 | 476,642 | 509,706 | 482,945 |
| Cantonment ... ... ... | 967 | 967 | 1,060 | 1,060 | 1,471 | 1,450 | 1,465 | 1,449 | 1,485 | 1,472 | 1,518 | 1,442 | 1,474 | 1,402 | 1,906 | 1,856 | 2,282 | 2,197 | 2,044 | 2,006 |
| Native States ... ... | 213,411 | 202,210 | 657,752 | 246,565 | 266,280 | 254,072 | 284,180 | 269,598 | 270,194 | 253,942 | 294,426 | 279,746 | 300,564 | 285,003 | 311,721 | 296,157 | 310,994 | 296,213 | 308,408 | 294,002 |
| Dispensary ... ... ... | 22,732 | 21,009 | 26,813 | 25,050 | 28,770 | 26,733 | 29,986 | 27,439 | 24,014 | 21,626 | 20,298 | 18,926 | 17,699 | 16,505 | 8,501 | 7,879 | 6,703 | 6,020 | 5,479 | 4,800 |
| Army ... European ... | 659 | 610 | 571 | 434 | 402 | 390 | 497 | 466 | 328 | 305 | 206 | 188 | 317 | 280 | 401 | 359 | 378 | 297 | 192 | 154 |
| Army ... Native... ... | 3,555 | 2,984 | 3,830 | 3,179 | 4,987 | 4,438 | 3,698 | 3,128 | 3,554 | 3,126 | 3,120 | 2,901 | 2,970 | 2,672 | 3,117 | 2,682 | 3,594 | 2,843 | 3,521 | 3,190 |
| Total ... | 642,505 | 616,513 | 729,323 | 703,923 | 792,206 | 761,745 | 826,965 | 791,323 | 802,207 | 764,445 | 854,387 | 818,135 | 855,972 | 817,386 | 879,755 | 839,263 | 896,394 | 851,718 | 900,232 | 854,182 |

Note.—Re-vaccinations are wholly excluded from this Statement.

No. 4748.

GENERAL DEPARTMENT.

Bombay Castle, 4th December 1890.

Letter from the Sanitary Commissioner for the Government of Bombay, No. B—1526, dated 1st July 1890—Submitting his Annual Report on Vaccination for the year 1889-90.

RESOLUTION.—The changes made in the Vaccination staff in the year 1889-90 consisted of the entertainment of one additional Inspector (in Baroda), 15 extra vaccinators and a few extra clerks and peons. Of the vaccinators, 2, in Bándra and Bijápur respectively, were employed by Municipalities ; 6, *viz.* 2 in Khándesh and one each in Belgaum, Dhárwár, Bijápur and Kánara, were entertained at the cost of Local Funds, and 7 were employed by Native States, *viz.* 5 by Baroda and one each by the Mewás State and the Southern Marátha Jághirs. Though the increases in establishment were trifling, the actual cost of the department was, as shown in the margin, greater than in the previous year by no less than Rs. 17,228, on account of the return from leave of two Deputy Sanitary Commissioners. It is not understood how, seeing that cost of Deputy Sanitary Commissioners was the sole important head of expenditure which showed an increase, Dr. MacRury has estimated in paragraph 39 of his report that the cost of vaccination, *excluding pay of Deputy Sanitary Commissioners and Superintendents*, exceeded the cost in the previous year by Rs. 19,700.

| | 1888-89. | 1889-90. |
|---|---|---|
| | Rs. | Rs. |
| Provincial... ... | 94 303 | 1,09,060 |
| Municipal ... ... | 29,708 | 30,761 |
| Cantonment ... | 1,049 | 862 |
| Local Fund - ... | 89,206 | 89,222 |
| Native States ... | 59,562 | 61,151 |
| | 2,73,828 | 2,91,056 |

2. Primary vaccinations have, except in 1884-85, been increasing steadily for the last 10 years. In the year under review they numbered 900,232 as compared with 896,394 in 1888-89 ; but on examining the figures in detail it appears that the increase was almost entirely confined to the Southern Registration District in the Belgaum, Bijápur and Kánara Districts of which the number of operations rose respectively from 28,944, 26,720 and 11,239 to 35,971, 32,885 and 15,139.

3. Re-vaccinations have now been increasing slowly but steadily since 1886-87, previously to which there had for some time been a tendency towards decrease rather than increase. The number of operations in the year under review was 58,470 as compared with 54,700 in 1888-89; but, as in the case of primary vaccinations, the increase occurred mainly in the Southern Registration District in all the divisions of which it was very marked. The improvement in Bombay City and in the Broach and Ahmedabad Collectorates of the Eastern Gujarát Registration District is also satisfactory.

4. The Sanitary Commissioner compares in the usual way the number of children actually vaccinated with the number available for vaccination. Though in view of the untrustworthy nature of the registration of vital statistics and the great difficulty of taking into account cases in which children who have been vaccinated die before the age of one year, the estimates arrived at are probably a little too sanguine, the Governor in Council has no doubt that in almost all parts of the Presidency a fair proportion of the children born in any year and surviving are duly vaccinated before they reach the age of one year. A comparison of the different Collectorates and Native State circles, as regards the success attained in this respect, can perhaps be most satisfactorily made by examining the rates per mille of population, the figures for which are given in the subjoined table. In the Presidency Circle the comparatively low rate is of course due to the fact that births in Bombay City are, as compared with population, decidedly fewer than in the Mofussil; but the rates for several

districts, especially Thána, Kánara, Karáchi and Khairpur, indicate that there is considerable room for improvement in the vaccination of children less than one year old in those places :—

| British Districts. | Number of successful primary vaccinations of children less than one year old per mille of population. | Total number of successful primary vaccinations per mille of population. |
|---|---|---|
| *Western Registration District.* | | |
| Khándesh ... ... | 22·7 | 30·2 |
| Násik ... ... ... | 18·9 | 26·6 |
| Thána ... ... ... | 14·9 | 29·1 |
| Kolába ... ... ... | 22·3 | 26·8 |
| *Presidency Circle* ... | 18·3 | 23·2 |
| *Central Registration District.* | | |
| Ahmednagar ... ... | 32·4 | 37·8 |
| Poona ... ... ... | 23·5 | 34·1 |
| Sholápur ... ... | 33·6 | 40·9 |
| Sátára ... ... ... | 29·9 | 37·2 |
| Ratnágiri ... ... | 20·9 | 33·1 |
| *Southern Registration District.* | | |
| Belgaum ... ... | 23·6 | 39·8 |
| Dhárwár ... ... | 22·4 | 33·5 |
| Bijápur ... ... | 27·7 | 48·5 |
| Kánara ... ... ... | 9·9 | 32·5 |
| *Eastern Gujarát Registration District.* | | |
| Surat ... ... ... | 22· | 30·2 |
| Broach ... ... ... | 29·5 | 36·7 |
| Kaira ... ... ... | 25· | 31·4 |
| Panch Mahál ... ... ... | 27·7 | 37·7 |
| Ahmedabad ... ... ... | 27·4 | 31·4 |
| *Sind Registration District.* | | |
| Karáchi... ... ... ... | 16·7 | 25·1 |
| Hyderabad ... ... ... | 20·2 | 28·9 |
| Thar and Párkar ... .. ... | 23· | 44·1 |
| Shikárpur ... ... ... | 30·4 | 34·1 |
| Upper Sind Frontier ... ... | 29· | 35·1 |
| Native States. | | |
| States in Western Registration District. | 21·2 | 32·9 |
| Do. Central do. ... | 21·3 | 31·1 |
| Do. Southern do. ... | 22·6 | 36·7 |
| Do. Eastern Gujarát do. ... | 17·7 | 31·5 |
| Do. Western do Káthiáwár. Registration District . Pálanpur... | 20·7 | 33·2 |
| | 19·7 | 30·4 |
| State (Khairpur) in Sind ... ... | 14·4 | 20·9 |
| Baroda Circle ... ... ... | 27· | 30·4 |
| Cutch do. ... ... ... | 28·5 | 41·4 |

5. The Sanitary Commissioner expresses satisfaction with the inspection work done by the Deputy Sanitary Commissioners and Superintendents of Vaccination, and in the Central Registration District in particular the amount done appears large. No explanation has been given of the failure of these officers to visit the Panch Mahál and the coast districts of Kánara (except the Supa and Yellápur Tálukas, the latter of which is above the ghát), Ratnágiri, Kolába and Thána (except Kalyán) in all of which inspection appears to be specially necessary. The number of villages visited as well as of those left unvisited by the *vaccinators* of the department in each district might have been stated with advantage. The average number of persons vaccinated by each vaccinator was 1,857, or nearly the same as in the previous year. As regards " rural Local Fund vaccinators," in whose case alone a comparison can properly be made, column 7 of Statement No. 1 shows very wide variations between the average amount of work done in different districts. In Kolába the average was only 1,232, while in the adjoining district of Ratnágiri it was 2,278. In the three Kánarese inland districts of Belgaum, Dhárwár and Bijápur, in all of which the registration of vital statistics is conducted very efficiently, and the circumstances of which are in many respects similar, the number of vaccinations per vaccinator was respectively 2,351, 1,798 and 3,988. In Karáchi, where apparently difficulties should not be excessive, the average number was only 1,053.

6. The operations were, as usual, very satisfactory on the whole. The figures for re-vaccination in the Presidency Circle in the year under review given in the last column of the table in paragraph 19 of the Sanitary Commissioner's report are, however, somewhat remarkable when compared with those for the previous year in that circle and those for both 1888-89 and 1889-90 in other Vaccination Divisions. Some explanation of the great discrepancy should have been given, especially as greater accuracy in recording results should apparently be expected in Bombay City than elsewhere.

7. The subjects of animal vaccination and the vaccination of the Bombay Mill hands have been separately considered by Government.

J. DEC. ATKINS,

Acting Under Secretary to Government.

To

The Sanitary Commissioner for the Government of Bombay,
The Commissioner in Sind,
The Commissioner, N. D.,
The Commissioner, C. D.,
The Commissioner, S. D.,
All Collectors, including the Collectors and Deputy Commissioners in Sind,
The Municipal Commissioner for the City of Bombay,
The Compiler, General Administration Report for 1889-90,
} With copies of the Report.

The Government of India,
The Secretary of State for India
} By letter.

# REPORT

ON

# VACCINATION

IN THE

# BOMBAY PRESIDENCY,

FOR THE YEAR

## 1892-93.

H. H. n-12a

Bombay:
PRINTED AT THE GOVERNMENT CENTRAL PRESS.

1893.

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# VACCINATION REPORT FOR THE YEAR 1892-93.

Vaccination Report.

The Government of India in Resolution, Home Department (Public), No. 28—1579-95, dated 15th July 1887, embodied in Bombay Government Resolution, General Department, No. 2426, dated 17th August 1887, paragraph 5, ruled that the report on vaccination should be submitted in full every third year, statistical returns and brief commentaries or notes being submitted in the intermediate years. In accordance with these instructions the report on vaccination for the year 1892-93 has been submitted in full.

Changes amongst the supervising officers.

2. The changes amongst the supervising officers, which took place from 1st April 1892 to 31st March 1893, were as follows :—

(*a*) In the Western Registration District Surgeon-Major J. W. Clarkson, having been appointed Acting Sanitary Commissioner for the Government of Bombay during the absence of Surgeon-Lieutenant-Colonel C. W. MacRury, delivered over charge of the office of the Deputy Sanitary Commissioner to Surgeon-Lieutenant-Colonel P. Murphy, Civil Surgeon, Násik, on 3rd June 1892; who, in his turn, handed it over to Surgeon-Captain A. V. Anderson on 24th October 1892; the latter officer acted as Deputy Sanitary Commissioner of this District till the end of the year.

(*b*) In the Gujarát Registration District Surgeon-Captain T. E. Dyson, having been appointed Deputy Sanitary Commissioner of this District, took charge on 20th June 1892 from Dr. M. B. Colah, who retired from the service. Surgeon-Captain Dyson obtained privilege leave for three months and his duties were carried on by Surgeon-Major K. S. Nariman, Civil Surgeon, Surat, from 21st July 1892 to 22nd October 1892.

Points to be remembered in reading over this report.

3. In reading this report it is to be borne in mind that the vaccination returns for 1891-92 of the Káthiáwár and Pálanpur Circles were not included in last year's report, but they are shown in the present report and contrasted with the returns for 1892-93. Another point to be remembered is, that in the report for 1891-92, the last census population, *exclusive* of Europeans and Eurasians, was made use of, but as vaccination work is performed amongst all alike, as far as possible, the Europeans and Eurasians are included in the population shown in this report.

Strength of the Department.

4. The subjoined table shows in detail the strength of the department during the year 1892-93 contrasted with that of the preceding year :—

| No. | Districts and Circles. | Area in square miles. | Population according to census of 1881. | Deputy Sanitary Commissioners | Superintendents of Vaccination | Inspectors of Sanitation and Vaccination. | Assistant Superintendents of Vaccination. | Clerks and Kárkúns. | Number of Vaccinators. | | | | | | | Number of Peons. | | | | | | | Total Strength. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Government. | Municipal. | Cantonment. | Local Fund. | | Native State. | Total. | Government. | Municipal. | Local Fund. | Cantonment. | Native State. | Total. | | |
| | | | | | | | | | | | | Vaccinators. | Candidates. | | | | | | | | | | |
| 1 | Western Registration District .. | 24,546 | 3,893,814 | 1 | ... | 8 | ... | 3 | ... | 6 | 1 | 68 | 8 | 4 | 87 | 12 | 5 | 69 | ... | 4 | 90 | 188 |
| 2 | Presidency Circle .. .. .. | 22 | 831,764 | ... | 1 | ... | 1 | 18 | ... | 9 | ... | ... | ... | ... | 9 | ... | 3 | ... | ... | ... | 3 | 32 |
| 3 | Central Registration District .. | 28,703·26 | 5,595,079 | 1 | ... | 7 | ... | 2 | ... | 9 | 1 | 74 | 6 | 12 | 102 | 10 | 6 | 74 | 1 | 13 | 106 | 218 |
| 4 | Southern do. .. | 28,781·4 | 4,956,428 | 1 | ... | 13 | 1 | 2 | ... | 8 | ... | 62 | 10 | 32 | 112 | 10 | 5 | 62 | ... | 39 | 116 | 245 |
| 5 | Gujarát do. .. | 20,067 | 4,684,201 | 1 | ... | 6 | ... | 2 | ... | 7 | ... | 42 | 5 | 29 | 83 | 9 | 6 | 42 | ... | 30 | 87 | 179 |
| 6 | Sind do. .. | 54,123 | 3,003,711 | 1 | 1 | 6 | ... | 3 | ... | 9 | ... | 54 | 5 | 3 | 71 | 10 | 12 | 54 | ... | 3 | 79 | 161 |
| 7 | Káthiáwár Native State Circle ... | 20,879·91 | 2,752,404 | ... | 3 | ... | 6 | 5 | 1 | ... | ... | ... | 7 | 46 | 54 | ... | ... | ... | ... | 61 | 61 | 129 |
| 8 | Pálanpur do. .. | 7,755 | 645,526 | ... | ... | ... | 1 | ... | 1 | ... | ... | ... | 1 | 10 | 12 | ... | ... | ... | ... | 12 | 12 | 25 |
| 9 | Baroda do. .. | 8,570 | 2,414,200 | ... | ... | 4 | ... | ... | ... | ... | ... | ... | 8 | 36 | 44 | ... | ... | ... | ... | 40 | 40 | 88 |
| 10 | Cutch do. .. | 6,500 | 558,415 | ... | 1 | ... | 2 | ... | ... | ... | ... | ... | ... | 17 | 17 | ... | ... | ... | ... | 19 | 19 | 39 |
| 11 | Aden .. .. .. .. .. | 1,160 | 44,079 | ... | .. | ... | ... | ... | ... | 2 | ... | ... | ... | .. | 2* | ... | 1 | ... | ... | ... | 1 | 3 |
| | Total for 1892-93 .. | 199,958·17 | 29,374,631 | 5 | 6 | 44 | 11 | 34 | 2 | 50 | 2 | 300 | 50 | 189 | 593 | 51 | 40 | 301 | 1 | 231 | 614 | 1,307 |
| | Do. 1891-92 .. | | | 5 | 3 | 43 | 8 | 33 | 2 | 52 | 2 | 296 | 45 | 179 | 576 | 51 | 36 | 297 | 1 | 203 | 588 | 1,256 |

Increase or decrease in strength.

5. During the year, three Superintendents and three Assistant Superintendents were entertained in the Káthiáwár States. One additional Inspector was also entertained for the Mahi Kántha Agency in the Gujarát Registration District. There was one vaccination kárkún employed by the Karáchi Municipality at the close of the year; last year there were three such kárkúns employed temporarily who were then discharged. The addition of three clerks was made in the Káthiáwár States. There is a decrease of two vaccinators under municipal establishment as two places in the Kolába Collectorate were abolished during the year. Under Local Fund establishment there is an increase of four vaccinators, one for each of the Collectorates of Thána, Kolába and Belgaum, and one for the Mevás villages in Khándesh. Five additional candidate vaccinators, one for Thána, one for Khándesh and three for Káthiáwár Native States, were entertained during the year. Under Native State establishment there is an addition of 11 vaccinators in the Káthiáwár States. One vaccinator formerly included in the Native States of the Western Registration District is now shown as a Local Fund vaccinator. In peons there was an increase of 26, of which 8 were entertained in the British Districts and 18 in the Native States (Káthiáwár). Thus, in the entire establishment, there has been an increase of three Superintendents, one Inspector, three Assistant Superintendents, one clerk, 17 vaccinators and 26 peons.

Primary vaccination.

6. The next table shows the number of persons primarily vaccinated as also the increase or decrease for each of the last ten years, together with the success among them:—

| Primarily vaccinated. | Year ending 31st March | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1884. | 1885. | 1886. | 1887. | 1888. | 1889. | 1890. | 1891. | 1892. | 1893. c |
| Persons ... ... | 826,965 | 802,207 | 854,387 | 855,972 | 879,755 | 896,394 | 900,232 | 885,260 | 935,099 | 924,165 |
| Increase ... ... ... | 34,759 | ... | 52,180 | 1,585 | 23,783 | 16,639 | 3,838 | ... | 49,839 | ... |
| Decrease ... ... | ... | 24,758 | ... | ... | ... | ... | ... | 14,972 | ... | 10,934 |
| Successful cases ... | 791,323 | 764,445 | 818,135 | 817,330 | 839,263 | 851,718 | 854,182 | 841,913 | 868,290 | 873,919 |
| Percentage of success. | 95·69 | 95·29 | 95·76 | 95·49 | 95·40 | 95·02 | 94·88 | 95·10 | 94·99 | 94·56 |

Although the number of persons primarily vaccinated is 10,934 less than last year, excepting that year the number is the largest since 1884. Out of 924,165 persons primarily vaccinated 873,919 or 94·56 per cent. were successfully vaccinated, being 0·49 per cent. less than in 1891-92.

Re-vaccination.

7. The number of persons re-vaccinated and the success among them for the last ten years are given below:—

| | Year ending 31st March | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1884. | 1885. | 1886. | 1887. | 1888. | 1889. | 1890. | 1891. | 1892. | 1893. |
| Number of persons re-vaccinated ... ... | 56,874 | 63,361 | 53,403 | 47,938 | 49,790 | 54,700 | 58,470 | 46,487 | 62,966 | 62,593 |
| Do. successfully... | 37,657 | 41,255 | 36,191 | 30,945 | 32,443 | 33,541 | 36,346 | 28,459 | 39,006 | 36,770 |
| Percentage of success. | 66·21 | 65·11 | 67·77 | 64·55 | 65·16 | 61·32 | 62·16 | 61·22 | 61·95 | 58·74 |

During the year under report 62,593 persons were re-vaccinated against 62,966 in the preceding year. The number of successful cases was 36,770 or 58·74 per cent. against 39,006 or 61·95 per cent. last year.

Total operations.

8. The subjoined table shows the total number of persons primarily vaccinated and re-vaccinated taken together, as also the number of successful cases during each of the last ten years:—

| | Years ending 31st March | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1884. | 1885. | 1886. | 1887. | 1888. | 1889. | 1890. | 1891. | 1892. | 1893. |
| Persons operated on . | 883,839 | 865,568 | 907,790 | 903,910 | 929,545 | 951,094 | 958,702 | 931,747 | 998,065 | 986,758 |
| Do. successfully ... | 828,980 | 805,700 | 854,326 | 848,331 | 871,706 | 885,259 | 890,528 | 870,372 | 927,296 | 910,689 |
| Percentage of success. | 93·79 | 93·08 | 94·11 | 93·85 | 93·78 | 93·08 | 92·89 | 93·41 | 92·91 | 92·29 |

Work amongst the Civil and Military population.

9. The total number of persons operated on was 986,758, and of these 910,689 or 92·29 per cent. were successful. In 1891-92 the respective figures were 998,065 and 927,296 or 92·91 per cent. The details of the total number of persons operated on for the last two years by Districts and Circles of vaccination, together with increase or decrease, are shown in the following table, which contrasts the work amongst the civil and military population during the year under report with that for 1891-92 :—

| Districts or Circles. | Persons primarily vaccinated. | | | | Persons re-vaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1891-92. | 1892-93. | Increase. | Decrease. | 1891-92. | 1892-93. | Increase. | Decrease. | 1891-92. | 1892-93. | Increase. | Decrease. |
| Western Registration District . | 114,065 | 116,523 | 2,458<br>2·16 | ... | 3,972 | 4,014 | 42<br>1·05 | ... | 118,037 | 120,537 | 2,500<br>2·12 | ... |
| Presidency Circle ... ... | 21,218 | 20,678 | ... | 540<br>2·55 | 6,383 | 3,203 | ... | 3,080<br>48·25 | 27,601 | 23,981 | ... | 3,620<br>13·12 |
| Central Registration District... | 189,296 | 195,263 | 5,967<br>3·15 | ... | 4,853 | 5,706 | 853<br>17·58 | ... | 194,149 | 200,969 | 6,820<br>3·51 | ... |
| Southern Registration District.. | 169,249 | 162,916 | ... | 6,333<br>3·74 | 26,233 | 25,941 | ... | 292<br>1·11 | 195,482 | 188,857 | ... | 6,625<br>3·39 |
| Gujarát Registration District... | 145,692 | 143,674 | ... | 2,018<br>1·39 | 2,485 | 1,406 | ... | 1,079<br>43·43 | 148,177 | 145,080 | ... | 3,097<br>2·09 |
| Sind Registration District ... | 92,960 | 83,596 | ... | 9,364<br>10·09 | 14,193 | 15,910 | 1,718<br>12·10 | ... | 107,172 | 99,506 | ... | 7,666<br>7·15 |
| KáthiáwárNative State Circle... | 82,783 | 86,024 | 3,241<br>3·92 | ... | 659 | 831 | 172<br>26·10 | ... | 83,442 | 86,855 | 3,413<br>4·09 | ... |
| Pálanpur do. ... ... | 21,443 | 18,124 | ... | 3,319<br>15·48 | 33 | 11 | ... | 22<br>66·67 | 21,476 | 18,135 | ... | 3,341<br>15·56 |
| Baroda do. ... ... | 70,389 | 72,557 | 2,168<br>3·08 | ... | 944 | 1,572 | 628<br>66·53 | ... | 71,333 | 74,129 | 2,796<br>3·92 | ... |
| Cutch do. ... ... | 21,593 | 18,428 | ... | 3,165<br>14·66 | 10 | 59 | 49 | ... | 21,603<br>490·00 | 18,487 | ... | 3,116<br>14·42 |
| Aden, Muskat, Bushire, and Shaikh Othmán ... ... | 1,911 | 2,359 | 448<br>23·44 | ... | 136 | 148 | 12<br>8·82 | ... | 2,047 | 2,507 | 460<br>22·47 | ... |
| British Army ... ... ... | 392 | 430 | 38<br>9·69 | ... | 867 | 1,565 | 698<br>80·51 | ... | 1,259 | 1,995 | 736<br>58·46 | ... |
| Native Army ... ... ... | 4,088 | 3,593 | ... | 495<br>12·18 | 3,199 | 2,127 | ... | 72<br>3·27 | 6,287 | 5,720 | ... | 567<br>9·02 |
| Total .. | 935,099 | 924,165 | ... | 10,934<br>1·17 | 62,966 | 62,593 | ... | 373<br>0·59 | 998,065 | 986,758 | ... | 11,307<br>1·13 |
| **ABSTRACT.** | | | | | | | | | | | | |
| Itinerant ... ... ... ... | 926,596 | 916,836 | ... | 9,760<br>1·05 | 59,143 | 58,349 | ... | 794<br>1·34 | 985,729 | 975,185 | ... | 10,544<br>1·07 |
| Dispensary ... ... ... | 4,033 | 3,306 | ... | 727<br>18·03 | 757 | 552 | ... | 205<br>27·08 | 4,790 | 3,858 | ... | 932<br>19·46 |
| Army ... ... ... ... | 4,490 | 4,023 | ... | 467<br>10·20 | 3,066 | 3,692 | 626<br>20·42 | ... | 7,546 | 7,715 | 169<br>2·24 | ... |
| Total ... | 935,099 | 924,165 | ... | 10,934<br>1·17 | 62,966 | 62,593 | ... | 373<br>0·59 | 998,065 | 986,758 | ... | 11,307<br>1·13 |

10. There is a net decrease of 10,934 or 1·17 per cent. in primary vaccination and 373 or 0·59 per cent. in re-vaccination, or a total decrease of 11,307 or 1·13 per cent. as compared with last year.

11. In primary vaccinations a decrease is shown in the Sind, Southern and Gujarát Registration Districts and in the Native States of Pálanpur and Cutch and to a lesser extent in the Presidency Circle and Native Army.

12. In re-vaccinations the decrease is 373 or 0·59 per cent. The largest decrease is in the Presidency Circle, then in the Gujarát Registration Circle.

13. There is a total decrease of 11,307 or 1·13 per cent. compared with last year. The Central and Western Registration Circles show an increase and the Native States of Káthiáwár and Baroda. The decrease is spread over the Sind, Gujarát, Southern and Presidency Circles and the Native States of Pálanpur and Cutch.

Causes of decrease.

14. The decrease is seen in the Sind, Southern and Gujarat Registration Circles and is due to the fever, cholera and partial scarcity which occurred in 1892. The decrease in primary operations in the Presidency Circle is owing to the presence of foot-and-mouth disease amongst the calves which almost put a stop to the work. As regards the decrease shown in re-vaccinations in the same circle, this is due to fewer calls being made upon the Department to operate on pilgrims arriving in ships with small-pox on board. No reasons are given for the decrease of work in the Pálanpur and Cutch Circles.

Infants successfully vaccinated as compared with available number—births minus deaths.

15. The following table shows the number of infants successfully vaccinated in the Presidency *exclusive of Native States*. The birth and death statistics are taken for the calendar year, as usual, in calculating the number available for vaccination :—

| No. | Collectorates. | Births returned as having been registered. | Deaths registered among children under one year. | Children available for vaccination. | Children under one year vaccinated successfully. | Children remained to be vaccinated under one year. | Percentage of Infants protected out of every 100 available. |
|---|---|---|---|---|---|---|---|
| 1 | Khándesh ... | 62,844 | 11,045 | 51,799 | 29,202 | 22,597 | 56·38 |
| 2 | Násik ... ... | 39,479 | 7,393 | 32,086 | 19,815 | 12,271 | 61·75 |
| 3 | Thána ... ... | 24,900 | 3,411 | 21,489 | 13,489 | 8,000 | 62·77 |
| 4 | Bombay City ... | 15,213 | 7,696 | 7,517 | 15,891 | ... | ... |
| 5 | Kolába ... ... | 19,274 | 2,829 | 16,445 | 13,716 | 2,729 | 83·89 |
| 6 | Ahmednagar ... | 39,004 | 7,640 | 31,364 | 24,104 | 7,260 | 76·86 |
| 7 | Poona ... ... | 36,227 | 5,320 | 30,907 | 25,412 | 5,495 | 82·23 |
| 8 | Sholápur ... ... | 29,927 | 5,067 | 24,860 | 21,906 | 2,954 | 80·07 |
| 9 | Sátára ... ... | 48,118 | 7,653 | 40,465 | 35,802 | 4,663 | 88·47 |
| 10 | Ratnágiri ... | 35,041 | 3,243 | 31,798 | 24,105 | 7,693 | 75·81 |
| 11 | Belgaum ... ... | 39,106 | 5,164 | 33,942 | 23,617 | 10,325 | 69·59 |
| 12 | Dhárwár ... ... | 41,981 | 6,806 | 35,175 | 21,288 | 13,887 | 60·50 |
| 13 | Bijápur ... ... | 31,793 | 4,023 | 27,770 | 19,481 | 8,289 | 70·15 |
| 14 | Kánara ... ... | 14,109 | 2,817 | 11,292 | 5,491 | 5,801 | 48·63 |
| 15 | Surat ... ... | 22,874 | 4,214 | 18,660 | 15,518 | 3,142 | 83·16 |
| 16 | Broach ... ... | 12,393 | 3,183 | 9,210 | 7,524 | 1,686 | 81·69 |
| 17 | Kaira ... ... | 31,355 | 6,543 | 24,812 | 19,894 | 4,918 | 80·18 |
| 18 | Panch Maháls ... | 11,442 | 1,487 | 9,955 | 8,599 | 1,356 | 86·38 |
| 19 | Ahmedabad ... | 28,489 | 8,065 | 20,424 | 24,247 | ... | ... |
| 20 | Karáchi ... ... | 14,369 | 4,167 | 10,202 | 8,596 | 1,606 | 84·26 |
| 21 | Hyderabad ... | 18,040 | 4,325 | 13,715 | 14,363 | ... | ... |
| 22 | Thar and Párkar . | 4,942 | 1,172 | 3,770 | 4,179 | ... | ... |
| 23 | Shikárpur ... | 25,821 | 7,594 | 18,227 | 23,850 | ... | ... |
| 24 | Upper Sind Frontier ... ... | 3,926 | 1,215 | 2,711 | 3,397 | ... | ... |
| | Total . {1892-93 . | 650,667 | 122,072 | 528,595 | 423,486 | 105,109 | 80·12 |
| | {1891-92 . | 682,677 | 113,832 | 568,845 | 435,608 | 133,237 | 76·58 |

From the foregoing table it will be observed that in 18 Districts out of 24, the successfully vaccinated fell short of the total registered births minus deaths amongst those under one year old, and in the remaining six Districts the successful operations outnumbered the available children. These six Districts stand in the following sequence: Bombay City (8,374), Shikárpur (5,623), Ahmedabad (3,823), Upper Sind Frontier (686), Hyderabad (648), and Thar and Párkar (409). In Bombay City the excess of infants vaccinated is probably in part due to infants brought into the city by parents coming to seek work, but there is also laxity in registering births. In the Sind Registration District the birth registration is defective. The figures show that out of 528,595 infants available for vaccination under one year, 423,486 or 80·12 per cent. were protected, and 105,109 or 19·88 per cent. remained unprotected.

Particulars of vaccine operations.

16. The following table specifies by Districts and Circles, caste, age, sex and result in primary vaccination, sex and result in re-vaccination and total operations, and their totals are contrasted with those in 1891-92 :—

# STATEMENT.

| Districts and Circles. | Persons primarily vaccinated. Caste. Christians. | Hindus. | Musalmáns. | Pársis. | Other Castes. | Age. N. = Number. S. = Successful. Under 1 year. | Between 1 and 6 years. | All other ages. | Total number of persons operated on. P. = Primary Vaccination. R. = Re-vaccination. Sex. Males. | Females. | Total. | Results. Successful. | Unsuccessful. | Unknown. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Western Registration District. | 1,056 | 106,871 | 5,248 | 121 | 3,227 | N. 84,964 | 29,903 | 1,656 | P. 58,574 | 57,949 | 116,523 | 110,003 | 2,071 | 4,618 | 116,692 |
| | | | | | | S. 80,545 | 27,912 | 1,546 | R. 2,928 | 1,086 | 4,014 | 1,660 | 2,018 | 336 | 4,014 |
| | | | | | | | | | 61,502 | 59,035 | 120,537 | 111,663 | 4,089 | 4,954 | 120,706 |
| Presidency Circle. | 1,613 | 11,553 | 4,143 | 1,284 | 2,085 | N. 16,236 | 3,239 | 1,203 | P. 10,516 | 10,162 | 20,678 | 19,941 | 284 | 574 | 20,799 |
| | | | | | | S. 15,891 | 3,105 | 945 | R. 2,663 | 640 | 3,303 | 1,716 | 296 | 1,291 | 3,303 |
| | | | | | | | | | 13,179 | 10,802 | 23,981 | 21,657 | 580 | 1,865 | 24,102 |
| Central Registration District. | 1,397 | 160,168 | 9,378 | 122 | 24,198 | N. 153,526 | 40,265 | 1,472 | P. 99,434 | 95,829 | 195,263 | 182,612 | 1,690 | 11,081 | 195,383 |
| | | | | | | S. 143,911 | 37,491 | 1,210 | R. 4,841 | 865 | 5,706 | 2,952 | 1,205 | 1,549 | 5,706 |
| | | | | | | | | | 104,275 | 96,694 | 200,969 | 185,564 | 2,895 | 12,630 | 201,089 |
| Southern Registration District. | 1,132 | 136,503 | 14,828 | 6 | 10,447 | N. 111,224 | 46,402 | 5,290 | P. 82,950 | 79,906 | 162,916 | 152,420 | 2,332 | 8,587 | 163,339 |
| | | | | | | S. 104,893 | 43,156 | 4,371 | R. 20,932 | 5,009 | 25,941 | 16,995 | 3,056 | 5,904 | 25,955 |
| | | | | | | | | | 103,882 | 84,975 | 188,857 | 169,415 | 5,388 | 14,491 | 189,294 |
| Gujarát Registration District. | 111 | 123,275 | 9,990 | 364 | 9,934 | N. 110,646 | 31,326 | 1,702 | P. 73,924 | 69,750 | 143,674 | 140,530 | 1,980 | 1,510 | 144,020 |
| | | | | | | S. 108,306 | 30,576 | 1,648 | R. 1,204 | 202 | 1,406 | 861 | 302 | 243 | 1,406 |
| | | | | | | | | | 75,128 | 69,952 | 145,080 | 141,391 | 2,282 | 1,753 | 145,426 |
| Sind Registration District. | 170 | 14,560 | 61,161 | 56 | 7,649 | N. 60,551 | 21,479 | 1,566 | P. 44,698 | 38,898 | 83,596 | 77,055 | 1,494 | 5,330 | 83,879 |
| | | | | | | S. 56,319 | 19,444 | 1,292 | R. 8,043 | 7,867 | 15,910 | 8,795 | 3,076 | 4,044 | 15,915 |
| | | | | | | | | | 52,741 | 46,765 | 99,506 | 85,850 | 4,570 | 9,374 | 99,794 |
| Káthiáwár Native State Circle. | 13 | 69,659 | 11,566 | 39 | 4,747 | N. 58,994 | 26,053 | 977 | P. 43,565 | 42,459 | 86,024 | 81,194 | 3,037 | 2,062 | 86,293 |
| | | | | | | S. 55,886 | 24,509 | 799 | R. 572 | 259 | 831 | 526 | 221 | 84 | 831 |
| | | | | | | | | | 44,137 | 42,718 | 86,855 | 81,720 | 3,258 | 2,146 | 87,124 |
| Pálanpur Native State Circle. | ... | 15,149 | 1,180 | 9 | 1,786 | N. 15,584 | 2,485 | 55 | P. 9,322 | 8,802 | 18,124 | 17,609 | 393 | 125 | 18,127 |
| | | | | | | S. 15,146 | 2,410 | 53 | R. 5 | 6 | 11 | 10 | 1 | ... | 11 |
| | | | | | | | | | 9,327 | 8,808 | 18,135 | 17,619 | 394 | 125 | 18,138 |
| Baroda Native State Circle. | 16 | 61,677 | 5,167 | 168 | 5,529 | N. 65,699 | 6,611 | 247 | P. 38,044 | 34,513 | 72,557 | 69,874 | 1,656 | 1,188 | 72,718 |
| | | | | | | S. 63,324 | 6,320 | 230 | R. 1,345 | 227 | 1,572 | 984 | 457 | 131 | 1,572 |
| | | | | | | | | | 39,389 | 34,740 | 74,129 | 70,858 | 2,113 | 1,319 | 74,290 |
| Cutch Native State Circle. | 1 | 14,622 | 3,801 | 3 | 1 | N. 13,846 | 4,388 | 194 | P. 9,340 | 9,088 | 18,428 | 17,567 | 733 | 159 | 18,459 |
| | | | | | | S. 13,294 | 4,101 | 172 | R. 49 | 10 | 59 | 30 | 29 | ... | 59 |
| | | | | | | | | | 9,389 | 9,098 | 18,487 | 17,597 | 762 | 159 | 18,518 |
| British Army ... | 228 | 138 | 46 | ... | 18 | N. 293 | 116 | 21 | P. 253 | 177 | 43 | 295 | 95 | 40 | 430 |
| | | | | | | S. 194 | 96 | 5 | R. 1,475 | 90 | 1,565 | 1,011 | 540 | 14 | 1,565 |
| | | | | | | | | | 1,728 | 267 | 1,995 | 1,306 | 635 | 54 | 1,995 |
| Native Army ... | 53 | 1,565 | 1,871 | 19 | 85 | N. 1,491 | 700 | 1,402 | P. 2,504 | 1,089 | 3,593 | 2,946 | 549 | 108 | 3,603 |
| | | | | | | S. 1,393 | 594 | 959 | R. 2,070 | 57 | 2,127 | 1,125 | 997 | 5 | 2,127 |
| | | | | | | | | | 4,574 | 1,146 | 5,720 | 4,071 | 1,546 | 113 | 5,730 |
| Aden, Muskat, Bushire and Shaik Othaman. | 37 | 35 | 2,103 | 2 | 182 | N. 558 | 640 | 1,161 | P. 1,562 | 797 | 2,359 | 1,873 | 108 | 378 | 2,359 |
| | | | | | | S. 489 | 509 | 875 | R. 109 | 39 | 148 | 105 | 28 | 15 | 148 |
| | | | | | | | | | 1,671 | 836 | 2,507 | 1,978 | 136 | 393 | 2,507 |
| Total for the Bombay Presidency, 1892-93. | 5,827 | 715,775 | 130,482 | 2,193 | 69,888 | N. 693,612 | 213,607 | 16,946 | P. 474,686 | 449,479 | 924,165 | 873,919 | 16,422 | 35,760 | 926,101 |
| | | | | | | S. 659,591 | 200,223 | 14,105 | R. 46,236 | 16,357 | 62,593 | 36,770 | 12,226 | 13,616 | 62,612 |
| | | | | | | | | | 520,922 | 465,836 | 986,758 | 910,689 | 28,648 | 49,376 | 988,713 |
| Do. in 1891-92. | 5,068 | 719,158 | 140,406 | 2,256 | 68,211 | N. 708,279 | 210,167 | 16,653 | P. 479,303 | 455,796 | 935,099 | 888,290 | 15,621 | 33,466 | 937,377 |
| | | | | | | S. 675,815 | 197,990 | 14,485 | R. 47,063 | 15,903 | 62,966 | 39,006 | 12,077 | 11,939 | 63,022 |
| | | | | | | | | | 526,366 | 471,699 | 998,065 | 927,296 | 27,698 | 45,405 | 1,000,399 |

| Excess of operations over persons. | Ratio per 100. | | | | | | | | | | | | | | Excess of operations over persons. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Persons primarily vaccinated. | | | | | | | | Total number of persons operated on. | | | Results. | | | |
| | Caste. | | | | | Age. | | | Sex. | | | | | | |
| | Christians. | Hindus. | Musalmáns. | Pársis. | Other castes. | Under 1 year. | Between 1 and 6 years. | All other ages. | Males. | Females. | Total. | Successful. | Unsuccessful. | Unknown. | Total. |
| 169 | 0·91 | 91·75 | 4·50 | 0·10 | 2·74 | N. 72·92 | 25·66 | 1·42 | P. 50·27 | 49·73 | 100 | 94·41 | 1·63 | 3·96 | 100·15 | 0·15 |
| ... | | | | | | S. 69·12 | 23·96 | 1·83 | R. 72·94 | 27·06 | 100 | 41·36 | 50·27 | 8·37 | 100 | ... |
| 169 | ... | ... | ... | ... | ... | ..... | ... | ... | 51·02 | 48·98 | 100 | 92·64 | 3·25 | 4·11 | 100·15 | 0·15 |
| 121 | 7·80 | 55·87 | 20·04 | 6·21 | 10·08 | N. 78·52 | 15·66 | 5·82 | P. 50·86 | 49·14 | 100 | 96·44 | 0·79 | 2·77 | 100·57 | 0·57 |
| ... | | | | | | S. 76·85 | 15·02 | 4·57 | R. 80·62 | 19·38 | 100 | 51·95 | 1·96 | 39·09 | 100 | ... |
| 121 | ... | ... | ... | ... | ... | ..... | ... | ... | 54·96 | 45·05 | 100 | 90·31 | 1·91 | 7·78 | 100·50 | 0·50 |
| 120 | 0·72 | 82·03 | 4·80 | 0·06 | 12·39 | N. 78·63 | 20·62 | 0·75 | P. 50·92 | 49·08 | 100 | 93·52 | 0·80 | 5·68 | 100·06 | 0·06 |
| ... | | | | | | S. 73·70 | 19·20 | 0·62 | R. 84·84 | 15·16 | 100 | 51·74 | 21·12 | 27·14 | 100 | ... |
| 120 | ... | ... | ... | ... | ... | ..... | ... | ... | 51·89 | 48·11 | 100 | 92·34 | 1·38 | 6·28 | 100·06 | 0·06 |
| 423 | 0·69 | 83·79 | 9·10 | ... | 6·42 | N. 68·27 | 28·48 | 3·25 | P. 50·92 | 49·08 | 100 | 93·57 | 1·17 | 5·27 | 100·26 | 0·26 |
| 14 | | | | | | S. 64·39 | 26·49 | 2·69 | R. 80·69 | 19·31 | 100 | 65·51 | 11·73 | 22·76 | 100·05 | 0·05 |
| 437 | ... | ... | ... | ... | ... | ..... | ... | ... | 55·01 | 44·99 | 100 | 89·71 | 2·62 | 7·67 | 100·23 | 0·23 |
| 346 | 0·08 | 85·80 | 6·95 | 0·25 | 6·92 | N. 77·01 | 21·80 | 1·19 | P. 51·45 | 48·55 | 100 | 97·81 | 1·14 | 1·05 | 100·24 | 0·24 |
| ... | | | | | | S. 75·38 | 21·28 | 1·15 | R. 85·63 | 14·37 | 100 | 61·24 | 21·48 | 17·28 | 100·00 | ... |
| 346 | ... | ... | ... | ... | ... | ..... | ... | ... | 51·78 | 48·22 | 100 | 97·46 | 1·33 | 1·21 | 100·24 | 0·24 |
| 283 | 0·20 | 17·42 | 73·16 | 0·07 | 9·15 | N. 72·43 | 25·69 | 1·88 | P. 53·47 | 46·53 | 100 | 92·18 | 1·44 | 6·38 | 100·34 | 0·34 |
| 5 | | | | | | S. 67·37 | 23·26 | 1·55 | R. 50·55 | 49·45 | 100 | 55·23 | 19·30 | 25·42 | 100·03 | 0·03 |
| 288 | ... | ... | ... | ... | ... | ..... | ... | ... | 53·00 | 47·00 | 100 | 86·28 | 4·30 | 9·42 | 100·29 | 0·29 |
| 269 | 0·02 | 80·97 | 13·44 | 0·05 | 5·52 | N. 68·58 | 30·28 | 1·14 | P. 50·64 | 49·36 | 100 | 94·39 | 3·22 | 2·39 | 100·31 | 0·31 |
| ... | | | | | | S. 64·97 | 28·49 | 0·93 | R. 68·83 | 31·17 | 100 | 63·29 | 26·60 | 10·11 | 100 | ... |
| 269 | ... | ... | ... | ... | ... | ..... | ... | ... | 50·82 | 49·18 | 100 | 94·09 | 3·44 | 2·47 | 100·31 | 0·31 |
| 3 | — | 83·58 | 6·51 | 0·05 | 9·86 | N. 85·99 | 13·71 | 0·30 | P. 51·43 | 48·57 | 100 | 97·16 | 2·15 | 0·69 | 100·02 | 0·02 |
| ... | | | | | | S. 83·57 | 13·30 | 0·29 | R. 45·45 | 54·55 | 100 | 90·91 | 9·09 | ... | 100 | ... |
| 3 | ... | ... | ... | ... | ... | ..... | ... | ... | 51·43 | 48·57 | 100 | 97·15 | 2·16 | 0·69 | 100·01 | 0·01 |
| 161 | 0·02 | 85·00 | 7·12 | 0·24 | 7·62 | N. 90·55 | 9·11 | 0·34 | P. 52·43 | 47·57 | 100 | 96·30 | 2·06 | 1·64 | 100·22 | 0·22 |
| ... | | | | | | S. 87·27 | 8·71 | 0·32 | R. 85·56 | 14·44 | 100 | 62·59 | 29·08 | 8·33 | 100·00 | ... |
| 161 | ... | ... | ... | ... | ... | ..... | ... | ... | 53·14 | 46·86 | 100 | 95·59 | 2·63 | 1·78 | 100·22 | 0·23 |
| 31 | 0·01 | 79·34 | 20·63 | 0·02 | ... | N. 75·14 | 23·81 | 1·05 | P. 50·68 | 49·32 | 100 | 95·33 | 3·81 | 0·86 | 100·17 | 0·17 |
| ... | | | | | | S. 72·14 | 22·25 | 0·94 | R. 66·10 | 33·90 | 100 | 50·85 | 49·15 | ... | 100 | ... |
| 31 | ... | ... | ... | ... | ... | ..... | ... | ... | 50·73 | 49·27 | 100 | 95·19 | 3·95 | 0·86 | 100·17 | 0·17 |
| ... | 53·03 | 32·09 | 10·69 | ... | 4·19 | N. 68·14 | 26·98 | 4·88 | P. 58·84 | 41·16 | 100 | 68·61 | 22·09 | 9·30 | 100 | ... |
| ... | | | | | | S. 45·12 | 22·32 | 1·16 | R. 94·25 | 5·75 | 100 | 64·60 | 34·50 | 0·90 | 100 | ... |
| ... | ... | ... | ... | ... | ... | ..... | ... | ... | 86·62 | 13·38 | 100 | 65·46 | 31·83 | 2·71 | 100 | ... |
| 10 | 1·47 | 43·56 | 52·07 | 0·53 | 2·37 | N. 41·49 | 19·49 | 39·02 | P. 69·69 | 30·31 | 100 | 81·99 | 15 | 3·01 | 100·28 | 0·28 |
| ... | | | | | | S. 38·77 | 16·53 | 26·69 | R. 97·32 | 2·68 | 100 | 52·89 | 46·87 | 0·24 | 100 | ... |
| 10 | ... | ... | ... | ... | ... | ..... | ... | ... | 79·96 | 20·04 | 100 | 71·17 | 26·85 | 1·98 | 100·17 | 0·17 |
| ... | 1·57 | 1·48 | 89·15 | 0·09 | 7·71 | N. 23·65 | 27·13 | 49·22 | P. 66·21 | 33·79 | 100 | 79·39 | 4·58 | 16·03 | 100 | ... |
| ... | | | | | | S. 20·73 | 21·57 | 37·09 | R. 73·65 | 26·35 | 100 | 70·94 | 18·92 | 10·14 | 100 | ... |
| ... | ... | ... | ... | ... | ... | ..... | ... | ... | 66·65 | 33·35 | 100 | 78·89 | 5·42 | 15·69 | 100 | ... |
| 1,936 | 0·63 | 77·45 | 14·12 | 0·24 | 7·56 | N. 75·05 | 23·51 | 1·84 | P. 51·36 | 48·64 | 100 | 94·56 | 1·57 | 3·87 | 100·21 | 0·21 |
| 19 | | | | | | S. 71·37 | 21·66 | 1·53 | R. 73·87 | 26·13 | 100 | 58·74 | 19·51 | 21·75 | 100·03 | 0·03 |
| 1,955 | ... | ... | ... | ... | ... | ..... | ... | ... | 52·79 | 47·21 | 100 | 92·29 | 2·71 | 5·00 | 100·20 | 0·20 |
| 2,278 | 0·54 | 76·90 | 15·02 | 0·24 | 7·30 | N. 75·74 | 22·48 | 1·78 | P. 51·26 | 48·74 | 100 | 94·99 | 1·44 | 3·57 | 100·24 | 0·24 |
| 56 | | | | | | S. 72·27 | 21·17 | 1·55 | R. 74·74 | 25·26 | 100 | 61·95 | 19·09 | 18·96 | 100·09 | 0·09 |
| 2,334 | ... | ... | .. | ... | ... | ..... | ... | ... | 52·74 | 47·26 | 100 | 92·91 | 2·54 | 4·55 | 100·23 | 0·23 |

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17. During the year there were primarily vaccinated 5,827 Christians, 715,775 Hindus, 130,482 Musalmáns, 2,193 Párs and 69,888 persons of other castes. Hindus, Musalmáns and Párs were less in number, but Christians, Hindus, and other castes were higher in percentages this year than in the preceding year. The Superintendent of Vaccination, Presidency Circle, observes that "it is a curious fact as throwing a side light on the gradual enlightenment of the community, that among the higher classes generally very few children remain unprotected, but in the case of the depressed classes great vigilance has to be exercised to make them bring their children for vaccination; for, with these classes avoidance of vaccination is the rule, and not the exception as is the case with the higher classes."

Caste or race.

18. The age details are compiled for three periods, viz., under 1 year, between 1 and 6 years and above 6 years. The numbers under each period primarily vaccinated were respectively 693,612, 213,607 and 16,946 against 708,279, 210,167 and 16,653 during the previous year. The number of infants successfully vaccinated was 659,591; of children between 1 and 6 years 200,223; and of persons of other ages 14,105. Thus out of every 100 persons primarily vaccinated, there were 75·05 infants, of whom 71·37 were successfully vaccinated. Compared with the preceding year this rate is lower by 0·90 per cent., the difference between the numbers vaccinated and the successful cases being 0·21 per cent. more than last year.

Age.

19. There were 474,686 males and 449,479 females primarily vaccinated; the re-vaccinated were respectively 46,236 and 16,357, and the totals of persons operated on were 520,922 males and 465,836 females. In primary vaccination the sex percentages are respectively 51·36 and 48·64 against 51·26 and 48·74 in the previous year. In re-vaccination they were respectively 73·87 and 26·13 against 74·74 and 25·26, and in total operations 52·79 and 47·21 against 52·74 and 47·26 last year.

Sex.

20. The following table shows by Districts and Circles the percentages of success in primary vaccination and re-vaccination, contrasted with those for the previous year:—

Percentage of success.

| No. | Districts and Circles. | Percentages of success of primary vaccination. | | Percentages of success in re-vaccination. | |
|---|---|---|---|---|---|
| | | 1891-92. | 1892-93. | 1891-92. | 1892-93. |
| 1 | Western Registration District ... | 94·84 | 94·41 | 44·62 | 41·36 |
| 2 | Presidency Circle ... ... | 96·65 | 96·44 | 75·34 | 51·95 |
| 3 | Central Registration District ... | 94·02 | 93·32 | 48·69 | 51·74 |
| 4 | Southern do. .... | 93·83 | 93·57 | 65·73 | 65·51 |
| 5 | Gujarát do. ... | 97·70 | 97·81 | 60·12 | 61·24 |
| 6 | Sind do. ... | 92·90 | 92·18 | 59·29 | 55·28 |
| 7 | Káthiáwár Native State Circle ... | 95·38 | 94·39 | 65·25 | 63·29 |
| 8 | Pálanpur do. ... | 97·84 | 97·16 | 84·85 | 90·91 |
| 9 | Baroda do. ... | 96·84 | 96·30 | 60·91 | 62·59 |
| 10 | Cutch do. ... | 94·95 | 95·33 | 70·00 | 50·85 |
| 11 | Aden ... ... ... | 81·48 | 79·39 | 79·41 | 70·94 |
| 12 | British Army ... ... | 77·81 | 68·61 | 61·94 | 64·60 |
| 13 | Native do. ... ... | 88·94 | 81·99 | 55·71 | 52·89 |
| | Average for the Presidency ... | 94·99 | 94·56 | 61·95 | 58·74 |

In the total for the Presidency there was a slight decrease in the percentage of success in primary vaccination, being 0·20 per cent. less than last year, whilst in re-vaccination it was 3·15 per cent.

21. In estimating the results in primary and re-vaccination the percentages of successful cases, according to the existing practice, have been calculated on total number of persons operated on. The number of unsuccessful cases includes the secondary operations, but in calculating the percentages they have been excluded from the total operations.

The mode of estimating the results of successful cases.

22. The following table gives the rate of primary successful vaccination of children under one year, and total successful primary operations per mille of population of each Collectorate and Native State, as desired by Government, *vide* paragraph 4 of their Resolution in the General Department, No. 4748 of 4th December 1890 :—

Rate per mille of population on successful vaccination.

| Districts. | Number of successful primary vaccinations of children less than one year old per mille of Population. | Total number of successful primary vaccinations per mille of Population. | Districts. | Number of successful primary vaccinations of children less than one year old per mille of Population. | Total number of successful primary vaccinations per mille of Population. |
|---|---|---|---|---|---|
| **BRITISH DISTRICTS.** | | | **BRITISH DISTRICTS—*continued.*** | | |
| | | | ***Gujarát Registration District.*** | | |
| ***Western Registration District.*** | | | Surat ... ... ... ... | 23·55 | 29·22 |
| Khándesh ... ... ... | 20·19 | 26·66 | Broach ... ... ... | 22·03 | 27·34 |
| Násik ... ... ... ... | 23·49 | 30·95 | Kaira ... ... ... ... | 22·82 | 27·13 |
| Thána ... ... ... ... | 16·46 | 26·33 | Panch Mahals ... ... | 27·44 | 37·07 |
| Kolába ... ... ... | 23·07 | 29·32 | Ahmedabad ... ... ... | 26·31 | 29·63 |
| ***Presidency Circle.*** | | | ***Sind Registration District.*** | | |
| | | | Karáchi ... ... ... | 15·22 | 23·83 |
| Bombay ... ... ... | 19·34 | 24·27 | Hyderabad ... ... ... | 15·63 | 22·22 |
| | | | Thar and Párkar ... ... | 14·01 | 26·83 |
| ***Central Registration District.*** | | | Shikárpur ... ... ... | 26·05 | 30·41 |
| | | | Upper Sind Frontier ... | 19·46 | 26·00 |
| Ahmednagar ... ... ... | 27·12 | 33·43 | | | |
| Poona ... ... ... ... | 23·80 | 32·67 | ***Native States.*** | | |
| Sholápur ... ... ... | 29·18 | 36·45 | States in Western Registration District... | 22·44 | 33·02 |
| Sátára ... ... ... ... | 29·20 | 34·02 | Do. Central do. ... | 22·63 | 31·04 |
| Ratnágiri ... ... ... | 21·80 | 28·65 | Do. Southern do. ... | 20·49 | 28·49 |
| | | | Do. Gujarát do. ... | 20·53 | 31·11 |
| ***Southern Registration District.*** | | | Do. Sind do. ... | 14·97 | 21·69 |
| | | | Káthiáwár ... ... ... | 20·30 | 29·50 |
| Belgaum ... ... ... | 23·30 | 31·73 | Pálanpur ... ... ... | 23·46 | 27·28 |
| Dhárwár ... ... ... | 20·25 | 29·10 | Baroda ... ... ... | 26·23 | 28·94 |
| Bijápur ... ... ... | 24·46 | 33·46 | Cutch ... ... ... ... | 23·81 | 31·46 |
| Kánara ... ... ... | 12·30 | 30·95 | | | |

23. The following table shows the number of infants or children under one year protected out of those available for vaccination, at the rate of 31 per mille of population, by Districts and Circles; as likewise those that remained unprotected, and the percentages of the protected and unprotected :—

Available infants estimated at 31 per mille of Population.

| Districts and Circles. | Population according to Census of 1891. | Children under 1 year available for vaccination at 31 per mille of Population. | Children under one year vaccinated successfully. | | Children remained to be vaccinated under one year. | |
|---|---|---|---|---|---|---|
| | | | Number. | Per cent protected of the available. | Number. | Per cent. |
| Western Registration District ... ... | 3,898,814 | 120,863 | 80,545 | 66·64 | 40,318 | 33·36 |
| Presidency Circle ... ... ... | 821,764 | 25,475 | 15,891 | 62·38 | 9,584 | 37·62 |
| Central Registration District ... ... | 5,595,079 | 173,447 | 143,911 | 82·97 | 29,536 | 17·03 |
| Southern do. ... ... | 4,956,428 | 153,649 | 104,893 | 68·27 | 48,756 | 31·73 |
| Gujarát do. ... ... | 4,684,201 | 145,211 | 108,306 | 74·59 | 36,905 | 25·41 |
| Sind do. ... ... | 3,003,711 | 93,115 | 56,319 | 60·48 | 36,796 | 39·52 |
| Káthiáwár Native State Circle ... ... | 2,752,404 | 85,325 | 55,886 | 65·50 | 29,439 | 34·50 |
| Pálanpur do. ... ... | 645,526 | 20,011 | 15,146 | 75·69 | 4,865 | 24·31 |
| Baroda ... ... ... ... ... ... | 2,414,200 | 74,840 | 63,324 | 84·50 | 11,516 | 16·50 |
| Cutch ... ... ... ... ... ... | 558,415 | 17,310 | 13,294 | 76·79 | 4,016 | 23·21 |
| Aden, &c. ... ... ... ... ... | *44,079 | 1,367 | 489 | 35·77 | 878 | 64·23 |
| British Army ... ... ... ... ... | Population not available. | ... | 194 | ... | ... | ... |
| Native do. ... ... ... ... ... | | ... | 1,393 | ... | ... | ... |
| Total ... | 29,374,621 | 910,613 | 659,591 | 72·43 | 251,022 | 27·57 |

* For Aden only.

It will be observed from the foregoing table that at the rate of 31 per 1,000 on the total population of 29,374,621, there were 910,613 infants available for vaccination, of which 659,491 were successfully vaccinated. Thus out of every 100 infants available, 72·43 were protected, and 27·57 passed that age without being protected.

Vaccination by establishments.

24. The progress of vaccination by different establishments will be seen from the following table :—

| Establishments. | Persons primarily vaccinated. | | | | Persons re-vaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1891-92. | 1892-93. | Increase. | Decrease. | 1891-92. | 1892-93. | Increase. | Decrease. | 1891-92. | 1892-93. | Increase. | Decrease. |
| 50 Municipal Vaccinators ... | 72,637 | 72,842 | 205 | ... | 14,379 | 12,200 | ... | 2,179 | 87,016 | 85,042 | ... | 1,974 |
| 2 Cantonment do. ... | 1,904 | 2,967 | 1,063 | ... | 332 | 1,085 | 753 | ... | 2,236 | 4,052 | 1,816 | ... |
| 300 Local Fund do. ... | 528,112 | 517,682 | ... | 10,430 | 30,859 | 30,499 | ... | 360 | 558,971 | 548,181 | ... | 10,790 |
| 189 Native State do. ... | 323,933 | 323,345 | ... | 588 | 13,573 | 14,565 | 992 | ... | 337,506 | 337,910 | 404 | ... |
| Dispensary ... ... | 4,033 | 3,306 | ... | 727 | 757 | 552 | ... | 205 | 4,790 | 3,858 | ... | 932 |
| British Army ... | 392 | 430 | 38 | ... | 867 | 1,565 | 698 | ... | 1,259 | 1,995 | 736 | ... |
| Native do. ... | 4,088 | 3,593 | ... | 495 | 2,199 | 2,127 | ... | 72 | 6,287 | 6,720 | ... | 567 |
| Total ... | 935,099 | 924,165 | ... | 10,934 | 62,966 | 62,593 | ... | 373 | 998,065 | 986,758 | ... | 11,307 |

In primary vaccination an increase is shown under Municipal, Cantonment and British Army ; in all other establishments there was a decrease. In re-vaccination there was considerable decrease in the work of municipal, and slight increase in cantonment, Native States and British Army. There was a net decrease of 11,307 in both kinds of operations together.

Results in vaccine operation by establishments.

25. The results in primary vaccination, re-vaccination and total operations as analysed by establishments are as under :—

| Establishments. | Results in primary vaccination. | | | | | Results in re-vaccination. | | | | | Results in total operations. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Successful. | Unsuccessful. | Unknown. | Total. | Excess of operations. | Successful. | Unsuccessful. | Unknown. | Total. | Excess of operations. | Successful. | Unsuccessful. | Unknown. | Total. | Excess of operations. |
| 50 Municipal Vaccinators ... | 69,076 | 1,159 | 2,881 | 73,115 | 273 | 6,158 | 2,887 | 3,160 | 12,205 | 5 | 75,234 | 4,045 | 6,041 | 85,320 | 278 |
| 2 Cantonment do. ... | 2,773 | 68 | 127 | 2,968 | 1 | 621 | 237 | 227 | 1,085 | ... | 3,394 | 305 | 354 | 4,053 | 1 |
| 300 Local Fund do. ... | 486,177 | 7,006 | 25,384 | 518,567 | 885 | 17,985 | 5,081 | 7,434 | 30,500 | 1 | 504,162 | 12,087 | 32,818 | 549,067 | 886 |
| 189 Native State do. ... | 309,676 | 7,449 | 6,985 | 324,110 | 765 | 9,547 | 2,390 | 2,641 | 14,578 | 13 | 319,223 | 9,839 | 9,626 | 338,688 | 778 |
| Dispensaries... ... | 2,976 | 97 | 235 | 3,308 | 2 | 323 | 94 | 135 | 552 | ... | 3,299 | 191 | 370 | 3,860 | 2 |
| British Army ... | 295 | 95 | 40 | 430 | ... | 1,011 | 540 | 14 | 1,565 | ... | 1,306 | 635 | 54 | 1,995 | ... |
| Native do. ... | 2,946 | 549 | 108 | 3,603 | 10 | 1,125 | 997 | 5 | 2,127 | ... | 4,071 | 1,546 | 113 | 5,730 | 10 |
| Total ... 1892-93 ... | 873,919 | 16,422 | 35,760 | 926,101 | 1,936 | 36,770 | 12,226 | 13,616 | 62,612 | 19 | 910,689 | 28,648 | 49,376 | 988,713 | 1,955 |
| Total ... 1891-92 ... | 888,290 | 15,621 | 33,466 | 937,377 | 2,278 | 39,006 | 12,077 | 11,939 | 63,022 | 56 | 927,296 | 27,698 | 45,405 | 1,000,399 | 2,334 |

In both kinds of operations the number of successful cases was less than in the preceding year. In primary vaccination the successful cases in all establishments were 873,819 and unsuccessful were 16,422, whilst in re-vaccination they were 36,770 and 12,226 respectively. The total number of persons operated on was 986,758, and of these 910,689 or 92·29 per cent. were successful against 927,296 or 92·91 per cent. in the preceding year. The total of unsuccessful during the year amounted to 28,648. In 49,376 cases the result was unkown, as they were not again brought for inspection, and 1,955 persons were operated on a second time on account of the failure of the first operation.

Percentages of success by establishments.

26. The percentages of successful cases in each kind of operation by establishments are given below :—

| Kind of operations. | Municipal. | Cantonment. | Local Fund. | Native State. | Dispensaries. | British Army. | Native Army. | For the entire Presidency. |
|---|---|---|---|---|---|---|---|---|
| In successful primary vaccination ... | 94·83 | 93·46 | 93·91 | 95·77 | 90·02 | 68·60 | 81·99 | 94·56 |
| Do. re-vaccination ... | 50·48 | 57·24 | 58·97 | 65·55 | 58·51 | 64·60 | 52·89 | 58·74 |

The highest percentage in primary vaccination was 95·77 under Native State establishment, and the lowest was 68·60 in the British Army. The next highest percentage was 94·83 under municipal establishment and the next lowest was 81·99

in the Native Army. In re-vaccination the highest percentage was 65·55 in Native States, and the lowest 50·48 under municipal establishments. In all establishments, as a whole, the percentage was 94·56 in primary and 58·74 under re-vaccination.

Work of establishments.

The work of the different establishments by districts and circles is as follows :—

Government vaccinators.

27. There are two Government vaccinators for the cantonment of Rájkot and Deesa and their work is supervised by the Medical Officer, Káthiáwár State Agency. Besides these two, there are three others under the Station Staff Surgeons for the military stations of Mhow, Neemuch and Nasirabad paid from "Military Funds", and their work is included under the head of Native Army.

Work of Cantonment vaccinators.

28. There is one vaccinator for the cantonment of Poona, and one entertained by the Poona suburban Municipality and Kirkee Cantonment for Kirkee. There is also a joint municipal and cantonment vaccinator at Málegaon in the Násik Zilla. Vaccination in the Devláli Cantonment was performed by the Medical Officer of the hospital. In the Ahmedabad Cantonment vaccination work was done by the cantonment vaccinator. The following table indicates the progress of vaccinations by Districts in which the abovenamed cantonments are situated :—

| Districts. | Persons primarily vaccinated. | | | | Persons re-vaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1891-92. | 1892-93. | Increase. | Decrease. | 1891-92. | 1892-93. | Increase. | Decrease. | 1891-92. | 1892-93. | Increase. | Decrease. |
| 1 Western Registration District ... | 239 | 216 | ... | 23 | 8 | ... | ... | 8 | 247 | 216 | ... | 31 |
| 1 Central do. ... | 1,647 | 2,701 | 1,054 | ... | 824 | 1,084 | 760 | .. | 1,971 | 3,785 | 1,814 | ... |
| Gujarát do. ... | 18 | 50 | 32 | ... | ... | 1 | 1 | ... | 18 | 51 | 33 | ... |
| Total ... | 1,904 | 2,967 | 1,063 | ... | 332 | 1,085 | 753 | ... | 2,236 | 4,052 | 1,816 | ... |

Work of Municipal vaccinators.

29. The following table gives the progress of vaccination by Districts and Circles under municipal vaccinators :—

| Districts and Circles. | Persons primarily vaccinated. | | | | Persons re-vaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1891-92. | 1892-93. | Increase. | Decrease. | 1891-92. | 1892-93. | Increase. | Decrease. | 1891-92. | 1892-93. | Increase. | Decrease. |
| 6 Western Registration District ... ... | 6,092 | 6,204 | 112 | ... | 1,426 | 1,651 | 225 | ... | 7,518 | 7,855 | 337 | ... |
| 9 Presidency Circle ... | 21,218 | 20,678 | ... | 540 | 6,247 | 3,203 | ... | 3,044 | 27,465 | 23,881 | ... | 3,584 |
| 9 Central Registration District. | 12,679 | 13,051 | 372 | ... | 2,203 | 2,677 | 474 | ... | 14,882 | 15,728 | 846 | ... |
| 8 Southern do. ... | 10,713 | 11,671 | 958 | ... | 1,929 | 2,079 | 150 | ... | 12,642 | 13,750 | 1,108 | ... |
| 7 Gujarát do. ... | 11,159 | 10,595 | ... | 564 | 470 | 411 | ... | 59 | 11,629 | 11,006 | ... | 623 |
| 9 Sind do. ... | 9,885 | 9,338 | ... | 547 | 1,998 | 2,127 | 129 | ... | 11,883 | 11,465 | ... | 418 |
| 2 Aden ... .. ... | 891 | 1,305 | 414 | ... | 106 | 52 | ... | 54 | 997 | 1,357 | 360 | ... |
| Total ... | 72,637 | 72,842 | 205 | ... | 14,379 | 12,200 | ... | 2,179 | 87,016 | 85,042 | ... | 1,974 |

In the total of primary vaccination there is a slight increase of 205, but under re-vaccination the decrease is considerable. Taking the two operations together, there was a net decrease of 1,974. There are forty-eight working vaccinators who vaccinated primarily 72,842 persons and re-vaccinated 12,200, of which 69,076 and 6,158 were successful. The total cost was Rs. 33,619-6-9 or annas 7-2 each successful case. The unsuccessful and unknown cases were respectively 4,045 and 6,041. There were 278 secondary operations.

Work of Local Fund vaccinators.

30. The following table shows the work of Local Fund vaccinators for each of the five Registration Districts :—

| Registration Districts. | Persons primarily vaccinated. | | | | Persons re-vaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1891-92. | 1892-93. | Increase. | Decrease | 1891-92. | 1892-93. | Increase. | Decrease | 1891-92. | 1892-93. | Increase. | Decrease. |
| 63 Western Registration District. | 100,819 | 102,832 | 2,013 | ... | 2,016 | 2,127 | 111 | ... | 102,835 | 104,959 | 2,124 | ... |
| 74 Central do. ... | 157,432 | 161,192 | 3,760 | ... | 1,925 | 1,466 | ... | 459 | 159,357 | 162,658 | 3,301 | ... |
| 62 Southern do. ... | 105,328 | 99,461 | ... | 5,867 | 13,402 | 12,502 | ... | 900 | 118,730 | 111,963 | ... | 6,767 |
| 42 Gujarát do. ... | 84,200 | 82,823 | ... | 1,377 | 1,326 | 625 | ... | 701 | 85,526 | 83,448 | ... | 2,078 |
| 54 Sind do. ... | 80,333 | 71,374 | ... | 8,959 | 12,190 | 13,779 | 1,589 | ... | 92,523 | 85,153 | ... | 7,370 |
| Total ... | 528,112 | 517,682 | ... | 10,430 | 30,859 | 30,499 | ... | 360 | 558,971 | 548,181 | ... | 10,790 |

It will be observed that during the year there was an increase in the Western and Central Registration Districts under primary vaccination, and an increase in the Western and Sind Registration Districts under re-vaccination, but a considerable decrease under primary vaccination in Sind and under both heads in the Southern and Gujarát Registration Districts. There was a net decrease of 10,790 in the total operations. There were 300 vaccinators and 34 candidates. The vaccinators primarily vaccinated 517,682 and re-vaccinated 30,499 persons. The number primarily vaccinated successfully was 486,177 and re-vaccinated successfully 17,985 or 93·91 and 58·97 per cent. respectively.

The total cost amounted to Rs. 95,586-12-10 and each successful case cost annas 3. Unsuccessful and unknown respectively in primary operations amounted to 7,006 and 25,384, and in re-vaccinations 5,081 and 7,434.

There were 885 secondary operations and one re-vaccination repeated. Each vaccinator, on an average, operated on 1,827 persons.

Work of Native State vaccinators.

31. The sub-joined table shows the work of Native State vaccinators in five Districts and four Circles :—

| Districts and Circles. | Persons primarily vaccinated. | | | | Persons re-vaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1891-92. | 1892-93. | Increase. | Decrease | 1891-92. | 1892-93. | Increase. | Decrease | 1891-92. | 1892-93. | Increase. | Decrease. |
| 4 Western Registration District. | 6,685 | 7,239 | 554 | ... | 477 | 227 | ... | 250 | 7,162 | 7,466 | 304 | ... |
| 12 Central do. ... | 17,539 | 18,319 | 781 | ... | 401 | 479 | 78 | ... | 17,939 | 18,798 | 859 | ... |
| 32 Southern do. ... | 51,236 | 50,034 | ... | 1,202 | 10,644 | 11,097 | 453 | ... | 61,880 | 61,131 | ... | 749 |
| 29 Gujarát do. ... | 49,511 | 49,736 | 225 | ... | 401 | 285 | ... | 116 | 49,912 | 50,021 | 109 | ... |
| 3 Sind do. ... | 2,755 | 2,884 | 129 | ... | 4 | 4 | ... | ... | 2,759 | 2,888 | 129 | ... |
| 46 Káthiáwár Native State Circle. | 82,783 | 86,024 | 3,241 | ... | 659 | 831 | 172 | ... | 83,442 | 86,855 | 3,413 | ... |
| 10 Pálanpur do. ... | 21,443 | 18,124 | ... | 3,319 | 33 | 11 | ... | 22 | 21,476 | 18,135 | ... | 3,341 |
| 36 Baroda do. ... | 70,389 | 72,557 | 2,168 | ... | 944 | 1,572 | 628 | ... | 71,333 | 74,129 | 2,796 | ... |
| 17 Cutch do. ... | 21,593 | 18,428 | ... | 3,165 | 10 | 59 | 49 | ... | 21,603 | 18,487 | ... | 3,116 |
| Total ... | 323,933 | 323,345 | ... | 588 | 13,573 | 14,565 | 992 | ... | 337,506 | 337,910 | 404 | ... |

In primary vaccination the decrease is in the Native States of Pálanpur and Cutch and those in the Southern Registration Circle and in re-vaccination in the Native States of the Western and Gujarát Registration Circles and in Pálanpur. The net increase is 404. There are 189 vaccinators and 16 candidates, 3 of whom work as vaccinators. The Káthiáwár State entertained 11 additional vaccinators and 3 candidates during the year. The number primarily vaccinated were 323,345 and re-vaccinated 14,565, and of these 309,676 and 7,547 or 95·77 and 65·55 per cent. respectively were successful. The unsuccessful and unknown in primary vaccination were 7,449 and 6,985 and in re-vaccination 2,390 and 2,641. There were 765 secondary operations and 13 re-vaccinations repeated. The total cost amounted to Rs. 79,395-5-5 or annas 4 per each successful case. The average number operated on by each vaccinator was 1,760.

Work of dispensary officers.

32. Vaccination was carried on in 15 dispensaries. The annexed table shows the progress of vaccination in Dispensaries by each district and circle :—

| Districts and Circles. | Persons primarily vaccinated. | | | | Persons re-vaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1891-92. | 1892-93. | Increase. | Decrease | 1891-92. | 1892-93. | Increase. | Decrease | 1891-92. | 1892-93. | Increase. | Decrease. |
| 1 Western Registration District. | 230 | 32 | ... | 198 | 45 | 9 | ... | 36 | 275 | 41 | ... | 234 |
| 2 Presidency Circle ... ... | ... | ... | ... | ... | 136 | 100 | ... | 36 | 136 | 100 | ... | 39 |
| 5 Southern Registration District. | 1,972 | 1,750 | ... | 222 | 258 | 263 | 5 | ... | 2,230 | 2,013 | ... | 217 |
| 4 Gujarát do. ... | 804 | 470 | ... | 334 | 288 | 84 | ... | 204 | 1,092 | 554 | ... | 538 |
| 0 Sind do. ... | 7 | ... | ... | 7 | ... | ... | ... | ... | 7 | ... | ... | 7 |
| 1 Shaik Othman ... ... | 674 | 506 | ... | 168 | 21 | 80 | 59 | ... | 695 | 586 | ... | 109 |
| 2 Bushire and Muskat ... | 346 | 548 | 202 | ... | 9 | 16 | 7 | ... | 355 | 564 | 209 | ... |
| Total ... | 4,033 | 3,306 | ... | 727 | 757 | 552 | ... | 205 | 4,790 | 3,858 | ... | 932 |

In the Western Registration Circle vaccination was carried on only at one dispensary, and in the Southern Circle in five dispensaries of the Sángli State. In Gujarát, the work carried on by the Medical officers of two dispensaries was, during the year, taken over by the Local Fund vaccinators. In primary operations 3,306 persons were vaccinated, 2,976 or 90·02 per cent. successfully. In re-vaccinations out of 552 persons 323 or 58·51 per cent. were successfully operated upon.

In primary vaccination the unsuccessful and unknown numbered 97 and 235 respectively and in re-vaccination the figures are 94 and 135. There were 2 secondary operations.

Work performed in the Army (British and Native).

**63.** Amongst the European troops the number of persons primarily vaccinated was 430, and in 295 cases the operation was successful. The unsuccessful and unknown cases amounted to 95 and 40 respectively. There were 1,565 cases of re-vaccination, of which 1,011 were successful, 540 unsuccessful and 14 unknown. In the Native Army the primarily vaccinated numbered 3,593 and re-vaccinated 2,127, of which the successful cases were 2,946 and 1,125 respectively. The unsuccessful and unknown cases numbered 549 and 108; and 997 and 5 under each head respectively. There were 10 secondary operations. The following table shows details of vaccination performed in the British and Native Army and amongst their camp followers :—

| Successful. | Primary Vaccination. | | | | | | | | | | | | | | | | Re-vaccination. | | | | | | Percentage of successful cases. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sex. | | Caste. | | | | | Age. | | | Results. | | | | | | Sex. | | Results. | | | | | |
| | | | | | | | | | | | Successful. | | | | | | | | | | | | | |
| | Males. | Females. | Christians. | Hindus. | Musalmáns. | Pársis. | Others. | Under 1 year. | Between 1 and 6 years. | About 6 years. | Under 1 year. | Above 1 and under 6 years. | Total of all ages. | Unsuccessful. | Unknown. | Total. | Excess of operations over persons. | Males. | Females. | Successful. | Unsuccessful and doubtful. | Unknown. | Total. | Excess of operations over persons. | In primary vaccinations. | In re-vaccinations. |
| *British Army.* | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Regiments ... | 100 | 93 | 193 | ... | ... | ... | ... | 183 | 10 | ... | 101 | 3 | 104 | 49 | 40 | 193 | ... | 1,315 | 71 | 874 | 498 | 14 | 1,386 | ... | 53·89 | 63·06 |
| Camp followers ... | 153 | 84 | 35 | 138 | 46 | ... | 18 | 110 | 100 | 21 | 93 | 93 | 191 | 46 | ... | 237 | ... | 160 | 19 | 137 | 42 | ... | 179 | ... | 80·59 | 76·54 |
| Total ... | 253 | 177 | 228 | 138 | 46 | ... | 18 | 293 | 116 | 21 | 194 | 96 | 295 | 95 | 40 | 430 | ... | 1,475 | 90 | 1,011 | 540 | 14 | 1,565 | ... | 68·80 | 64·60 |
| *Native Army.* | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Regiments ... | 2,420 | 1,027 | 45 | 1,505 | 1,818 | 19 | 60 | 1,423 | 652 | 1,367 | 1,336 | 558 | 2,829 | 521 | 107 | 3,457 | 10 | 1,829 | 54 | 964 | 914 | 5 | 1,883 | ... | 81·93 | 51·19 |
| Camp followers ... | 84 | 62 | 8 | 60 | 53 | ... | 25 | 63 | 48 | 35 | 57 | 36 | 117 | 28 | 1 | 146 | ... | 241 | 3 | 161 | 83 | ... | 244 | ... | 80·14 | 66·00 |
| Total ... | 2,504 | 1,089 | 53 | 1,565 | 1,871 | 19 | 85 | 1,491 | 700 | 1,402 | 1,393 | 594 | 2,946 | 549 | 108 | 3,603 | 10 | 2,070 | 57 | 1,125 | 997 | 5 | 2,127 | ... | 81·99 | 52·89 |
| Grand Total ... | 2,757 | 1,266 | 281 | 1,703 | 1,917 | 19 | 103 | 1,784 | 816 | 1,423 | 1,587 | 690 | 3,241 | 644 | 148 | 4,033 | 10 | 3,545 | 147 | 2,136 | 1,537 | 19 | 3,692 | ... | 80·36 | 57·86 |

Average number of operations for each kind of establishment.

**34.** The average number of persons operated on by different establishments is specified below for the years 1891-92 and 1892-93 :—

| No. | Establishments. | Average number of persons operated on. | |
|---|---|---|---|
| | | 1891-92. | 1892-93. |
| 1 | Municipal Vaccinators ... ... ... | 1,706 | 1,772 |
| 2 | Cantonment do. ... ... ... | 1,118 | 1,351 |
| 3 | Local Fund do. ... ... ... | 1,888 | 1,827 |
| 4 | Native State do. ... ... ... | 1,767 | 1,760 |
| 5 | For the entire Presidency ... ... ... | 1,860 | 1,794 |

There was a decrease in averages under all establishments except those of Municipal and Cantonment.

Average number of operations for each vaccinator by districts and circles.

35. The subjoined table indicates the averages by districts and circles :—

| No. | Districts and Circles. | Average Number of Persons vaccinated by each vaccinator. | |
|---|---|---|---|
| | | 1891-92. | 1892-93. |
| 1 | Western Registration District ... ... | 1,491 | 1,525 |
| 2 | Presidency Circle... ... ... ... | 3,433 | 2,985 |
| 3 | Central Registration District ... ... ... | 2,022 | 2,093 |
| 4 | Southern do. ... ... ... | 1,913 | 1,832 |
| 5 | Gujarát do. ... ... ... | 1,886 | 1,853 |
| 6 | Sind do. ... ... ... | 1,624 | 1,508 |
| 7 | Káthiáwár Native State Circle ... ... | 2,318 | 1,869 |
| 8 | Pálanpur do. ... ... | 1,952 | 1,649 |
| 9 | Baroda do. ... ... | 1,981 | 2,059 |
| 10 | Cutch do. ... ... | 1,271 | 1,087 |
| 11 | Aden do. ... ... | 445 | 678 |
| | Average for the whole Presidency ... | 1,860 | 1,794 |

The averages are higher in the Western and Central Registration Districts and in Baroda and Aden Circles, whilst in the remaining districts they are below those of the preceding year.

English lymph.

36. The subjoined statement shows the result of the English lymph received during the year :—

| Supply received in. | Districts and Circles. | Number of | | | | Character of vesicles. | Remarks. |
|---|---|---|---|---|---|---|---|
| | | Tubes received and tested. | Children and calves operated on. | Insertions. | Resulting vesicles. | | |
| November 1892 and March 1893. | Western Registration District ... | 18 | 15 | 81 | 49 | Vesicles clear and pearly. | |
| | Presidency Circle ... ... ... | *40 | 10 | 481 | 133 | Some of the resulting vesicles were characteristic in appearance and yielded a fair supply of lymph. | The lymph in several of the tubes was of a rosy opaque colour and in clots and ropy. |
| | Central Registration District ... | 17 | 17 | 98 | 43 | Large ... ... ... ... | Lymph good. |
| | Southern do. ... | 18 | 13 | 78 | 46 | Good ... ... ... ... | Do. |
| | Gujarát do. ... | 18 | 16 | 82 | 16 | Middling ... ... ... | Result on the whole not good. |
| | Sind do. ... | 16 | 16 | 78 | 10 | 8 good 2 bad ... ... ... | Two tubes broken in transit. |
| | Total ... | 127 | 87 | 898 | 297 | | |

* Calf lymph.

There were altogether 2 consignments of English lymph in November 1892 and March 1893. Forty-five tubes of humanized and 20 of bovine lymph were received each time. For Aden there were 4 consignments during the year, where English lymph was sent direct. During hot weather calf lymph was reported to be quite inert in Aden.

Lymph supply.

37. Lymph was supplied by the Deputy Sanitary Commissioner, Western Registration District, to the Chief Civil Administrative Medical Officer for Central India at Indore.

It was also supplied by the Deputy Sanitary Commissioner, Central Registration District, to Medical Officers in charge Regiments, 4th Infantry, Horse Cavalry, Ráichur, Poona Horse, Sirur, 3rd Regiment, Bombay Light Infantry, Sátára; Medical Officer, Bolarum; Civil Surgeons, Mandala, Faizabad, Unao, Sultánpur, Gonda, Partábgar, Hardoi, Barabanki and Baraich; Superintendent of Vaccination, Lucknow, and Allahabad, and Deputy Sanitary Commissioner, Circle III, North-West Provinces, Almora.

In the Presidency Circle, there were 1,004 applications for bovine lymph during the year. The number of tubes issued was 2,553. Of these tubes 1,648 were supplied locally to private parties, 393 to private persons in the mofussil, and 512 were supplied free of charge to the Civil and Residency Surgeons, the Deputy Sanitary Commissioners, and to Medical Officers in charge of Army Hospitals, up-country.

The Deputy Sanitary Commissioner, Gujarát Registration District, sent one supply of lymph to the Superintendent of Vaccination, Nasirabad. Lymph children were supplied to the Assistant Surgeons in charge Bulsár and Sádra Dispensaries.

Quality of Lymph in use.

38. The quality of lymph in use throughout the year was reported to be good.

Animal vaccination.

39. Animal vaccination is being gradually extended, and it is satisfactory to note that this mode of vaccinating is appreciated, the parents, as soon as it is known lymph will not be taken from their infants' arms, not objecting. There is more expense, of course, with this method, and there is also the danger in large towns of the supply of calves failing, but in country districts if the method adopted by Dr. Street, the Deputy Sanitary Commissioner of the Central Division, is carried out carefully there will be no failure of calves or any great increase in expenditure. I append some brief notes on the progress attained in the various divisions.

Animal vaccination in Western Registration District.

In the Western Registration District animal lymph is used in the towns of Igatpuri, Kurla, Kalyán and Bandora, and it is hoped that soon other towns and large villages may be persuaded to use this method.

Bombay City.

In Bombay City animal lymph has been in use for many years past. There has been some hinderance to the work owing to the outbreak of foot-and-mouth disease twice during the year. There is a great want of a proper Vaccine Depôt in a central situation with good stabling for the animals. Such a depôt properly constructed and efficiently supervised need not be a nuisance in any locality.

Central Registration District.

In the Central Registration District the Deputy Sanitary Commissioner states that the practice of using animal lymph was carried on continuously throughout the year in Poona City, Poona Cantonment, Sholápur City, and the City of Ahmednagar; and in these 8,979 children were vaccinated from calf lymph. Of the minor municipalities of the Poona Zilla, Junnar, Alandi, Jejuri, Sásvad, Sirúr, Talegaon (Dábháde) and Lonávala have voted the sums necessary to provide a calf every six months or annually. Animal lymph was also used in 219 villages; in these, and in 7 municipalities stated above, there were 8,315 children vaccinated with this lymph. Last year the practice was confined to 3 municipalities and 42 villages, and 2,887 children were vaccinated. Much credit is due to Mr. Trimbak Anant, 1st Class Inspector of Sanitation and Vaccination, Poona Zilla, for the interest and zeal he has shown in the work of extending this practice in his district.

Animal lymph was, for the first time, introduced into the rural district of Ahmednagar Zilla during the year. It met with much success and 1,873 children were vaccinated from the calf in 81 villages. Mr. Laxumon Khanderao, Inspector of Sanitation and Vaccination of this Zilla, did good work in the extension of the practice in this district.

Animal vaccination is much needed in large towns of the Central Registration District, such as Sátára, Bársi, Pandharpur, Wái, Karád, Ashta, Islámpur, Tásgaon, Rájápur, Chiplún, Vengurla and Kirkee Cantonment, in which there is always a difficulty in getting the people to give lymph.

Animal vaccination in the Southern Registration District.

In the Southern Registration District animal vaccination was continued in Belgaum, Dhárwár, Hubli and Gadag towns. In the latter town, however, owing to the local difficulties on account of the famine, animal vaccination was only carried on for about 4 months. The Deputy Sanitary Commissioner states that "the quality of animal vaccination in these towns was very satisfactory and a high standard of work was maintained."

Animal vaccination in Sind.

In Sind, there is great difficulty in obtaining vaccinifers. This difficulty appears to be on the increase, notwithstanding the payment of the regulated fees to parents owing to objection against lymph being taken from the ripe vesicles. It is hoped that soon the larger towns will be prevailed upon to supply the money to obtain calves at least twice a year so as to do away with the difficulty as regards the regular supply of human lymph.

In the town of Karáchi animal vaccination was performed throughout the year. Animal lymph in tubes, forwarded to vaccinators, though not successful in some instances, was most successful when it was taken direct from calves particularly in the cold weather.

Heifers inoculated.

40. The following table shows the number of heifers inoculated in some of the towns where animal vaccination was performed during the year, and the result of the operations by months from April 1892 to March 1893 inclusive :—

| Months. | Poona City. | | | Poona Cantonment. | | | Sholápur Town. | | | Ahmednagar Town. | | | Kará'chi Town. | | | Belgaum. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Heifers inoculated. | Successful. | Unsuccessful. | Heifers inoculated. | Successful. | Unsuccessful. | Heifers inoculated. | Successful. | Unsuccessful. | Heifers inoculated. | Successful. | Unsuccessful. | Heifers inoculated. | Successful. | Unsuccessful. | Heifers inoculated. | Successful. | Unsuccessful. |
| April 1892 | 12 | 12 | ... | 6 | 6 | ... | 6 | 6 | ... | 7 | 7 | ... | 18 | 18 | ... | 5 | 5 | ... |
| May ,, | 10 | 10 | ... | 7 | 7 | ... | 7 | 7 | ... | 8 | 8 | ... | 16 | 16 | ... | 6 | 6 | ... |
| June ,, | 12 | 12 | ... | 6 | 6 | ... | 7 | 7 | ... | 7 | 7 | ... | 24 | 23 | 1 | 5 | 5 | ... |
| July ,, | 9 | 9 | ... | 7 | 7 | ... | 6 | 6 | ... | 8 | 8 | ... | 18 | 18 | ... | 6 | 6 | ... |
| August ,, | 11 | 11 | ... | 6 | 6 | ... | 7 | 7 | ... | 8 | 8 | ... | 21 | 21 | ... | 6 | 5 | 1 |
| September ,, | 10 | 10 | ... | 7 | 7 | ... | 6 | 6 | ... | 7 | 7 | ... | 19 | 19 | ... | 6 | 6 | ... |
| October ,, | 11 | 11 | ... | 6 | 6 | ... | 6 | 6 | ... | 7 | 7 | ... | 19 | 19 | ... | 6 | 6 | ... |
| November ,, | 11 | 11 | ... | 7 | 7 | ... | 6 | 6 | ... | 7 | 7 | ... | 14 | 14 | ... | 5 | 5 | ... |
| December ,, | 11 | 11 | ... | 6 | 6 | ... | 6 | 6 | ... | 8 | 8 | ... | 15 | 15 | ... | 6 | 6 | ... |
| January 1893 | 11 | 11 | ... | 7 | 7 | ... | 6 | 6 | ... | 8 | 8 | ... | 14 | 14 | ... | 6 | 6 | ... |
| February ,, | 10 | 10 | ... | 6 | 6 | ... | 6 | 6 | ... | 6 | 6 | ... | 14 | 14 | ... | 5 | 5 | ... |
| March ,, | 13 | 13 | ... | 10 | 10 | ... | 6 | 6 | ... | 7 | 7 | ... | 17 | 17 | ... | 6 | 6 | ... |
| Total | 131 | 131 | ... | 81 | 81 | ... | 75 | 75 | ... | 88 | 88 | ... | 209 | 208 | 1 | 68 | 67 | 1 |

| Months. | Dha'rwa'r. | | | Hubli. | | | Gadag. | | | Bombay City. | | | Total. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Heifers inoculated. | Successful. | Unsuccessful. | Heifers inoculated. | Successful. | Unsuccessful. | Heifers inoculated. | Successful. | Unsuccessful. | Heifers inoculated. | Successful. | Unsuccessful. | Heifers inoculated. | Successful. | Unsuccessful. |
| April 1892 | 6 | 6 | ... | 6 | 6 | ... | ... | ... | ... | 60 | 60 | ... | 126 | 126 | ... |
| May ,, | 6 | 6 | ... | 7 | 7 | ... | ... | ... | ... | 64 | 64 | ... | 131 | 131 | ... |
| June ,, | 6 | 6 | ... | 6 | 6 | ... | ... | ... | ... | 60 | 60 | ... | 133 | 132 | 1 |
| July ,, | 6 | 6 | ... | 7 | 7 | ... | ... | ... | ... | 62 | 62 | ... | 129 | 129 | ... |
| August ,, | 5 | 4 | 1 | 6 | 6 | ... | ... | ... | ... | 62 | 62 | ... | 132 | 130 | 2 |
| September ,, | 6 | 5 | ... | 6 | 6 | ... | ... | ... | ... | 60 | 60 | ... | 126 | 126 | ... |
| October ,, | 7 | 7 | ... | 6 | 6 | ... | ... | ... | ... | 44 | 44 | ... | 112 | 112 | ... |
| November ,, | 6 | 6 | ... | 7 | 7 | ... | 1 | 1 | ... | 49 | 49 | ... | 113 | 113 | ... |
| December ,, | 6 | 6 | ... | 6 | 6 | ... | 6 | 6 | ... | 59 | 59 | ... | 129 | 129 | ... |
| January 1893 | 6 | 6 | ... | 6 | 6 | ... | 7 | 7 | ... | 59 | 59 | ... | 130 | 130 | ... |
| February ,, | 6 | 6 | ... | 6 | 6 | ... | 5 | 5 | ... | 56 | 56 | ... | 120 | 120 | ... |
| March ,, | 6 | 6 | ... | 6 | 6 | ... | 4 | 3 | 1 | 63 | 63 | ... | 138 | 137 | 1 |
| Total | 71 | 70 | 1 | 75 | 75 | ... | 23 | 22 | 1 | 698 | 698 | ... | 1,519 | 1,515 | 4 |

Expenditure.

41. The total expenditure on account of vaccination is shown in the following table as compared with the preceding year :—

| Establishments. | 1891-92. | 1892-93. | Increase. | Decrease. |
|---|---|---|---|---|
| | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. |
| Provincial ... ... | 1,15,103 10 1 | 1,10,687 4 6 | ..... | 4,416 5 7 |
| Municipal ... ... | 32,674 7 2 | 33,619 6 9 | 944 15 7 | ..... |
| Cantonment ... ... | 1,128 4 9 | 1,314 8 10 | 186 4 1 | ..... |
| Local Fund ... ... | 93,933 14 3 | 95,586 12 10 | 1,652 14 7 | ..... |
| Native States ... ... | 66,351 8 2 | 79,395 5 5 | 13,043 13 3 | ..... |
| Total ... | 3,09,191 12 5 | 3,20,603 6 4 | 11,411 9 11 | ..... |

The decrease under Provincial is chiefly due to the absence of the permanent Deputy Sanitary Commissioner of the Western Registration District, the office being in charge of the Civil Surgeon. There was a slight increase under Municipal, Cantonment and Local Funds, and a considerable increase under Native States. The increase under Municipal and Cantonment is due to the increased expenditure on animal vaccination in certain towns. The increase under Local Fund is owing to the supply of clothing to peons of Local Fund vaccinators in some districts during the year, and in Native States the increase is due to the increased staff of vaccinators entertained. The net increase over the preceding year was Rs. 11,411-9-11. The total cost of all charges for the whole Presidency, including Native States, was Rs. 3,20,603-6-4, whilst the successful cases, excluding Dispensaries and the Army, amounted to 902,013. The average cost for each successful case was annas 5 and pies 8 against annas 5 and pies 5 in the preceding year.

Work of Deputy Sanitary Commissioners.

42. The inspectorial work performed by the supervising officers is shown in the table below :—

| Names of Districts and Circles. | Deputy Sanitary Commissioners and Superintendents. | Number of encampments. | Number of travelling days. | Distance travelled in miles. | Number of villages visited. | Number of vaccinated children inspected. |
|---|---|---|---|---|---|---|
| Western Registration District... | Surgeon-Major J. W. Clarkson ... / Surgeon-Captain A. V. Anderson ... | 35 | 117 | 2,736 | 151 | 4,891 |
| Central do. ... | Surgeon-Major A. W. F. Street ... | 46 | 160 | 1,662 | 298 | 9,560 |
| Southern do. ... | Surgeon-Major O. H. Channer ... | 41 | 127 | 2,223 | 146 | 10,926 |
| Gujarát do. ... | Surgeon-Captain T. E. Dyson ... | 28 | 124 | 1,849 | 218 | 6,478 |
| Sind do. ... | Surgeon-Major J. C. H. Peacocke ... | 56 | 180 | 2,849 | 141 | 1,769 |
| Total ... | 1892-93 ... | 206 | 708 | 11,319 | 954 | 33,624 |
| | 1891-92 ... | 251 | 668 | 11,677 | 960 | 31,910 |

The highest number of children inspected in any one District during the year was 10,926 in the Southern Registration District, but 10,350 of these were inspected without the test of calling their names from the register. The least number inspected was in the Sind Registration District, where 1,769 children were inspected.

Inspection from vaccination registers.

43. The following table shows the work of supervising officers tested by calling names from registers :—

| Districts and Circles. | Work tested by calling names from Registers. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of vaccinated children inspected. | Present during inspection. | | | | Absent during inspection. | | Number of persons whom the vaccinator has returned as vaccinated. | | | | |
| | | Successful. | | | Unsuccessful. | Absence accounted for. | Absence unaccounted for. | Successful. | Unsuccessful and doubtful. | Unknown. | Total. | Excess of operations over persons. |
| | | Good. | Middling. | Bad. | | | | | | | | |
| Western Registration District ... | 4,229 | 3,167 | 542 | 401 | 119 | 2,504 | ... | 6,369 | 107 | 285 | 6,761 | 28 |
| Central do. ... | 8,857 | 8,083 | 453 | 247 | 74 | 5,791 | 1 | 13,319 | 151 | 1,196 | 14,666 | 17 |
| Southern do. ... | 576 | 504 | 37 | 23 | 12 | 338 | ... | 853 | 11 | 50 | 914 | ... |
| Gujarát do. ... | 6,478 | 5,002 | ... | 1,380 | 96 | 2,171 | ... | 8,387 | 182 | 82 | 8,651 | 2 |
| Sind do. ... | 1,621 | 883 | ... | 702 | 36 | 628 | ... | 2,124 | 26 | 99 | 2,249 | ... |
| Total ... {1892-93 ... | 21,761 | 17,639 | 1,032 | 2,753 | 337 | 11,432 | 1 | 31,052 | 477 | 1,712 | 33,241 | 47 |
| {1891-92 ... | 21,513 | 15,962 | 2,111 | 2,950 | 490 | 12,254 | ... | 31,470 | 588 | 1,737 | 33,795 | 28 |

It will be seen from the foregoing tables that out of the 33,624 children inspected the results in 21,761 instances were tested by calling their names from registers in which there were enrolled 33,241 names, of whom 47 were vaccinated more than once on account of the failure of the first operation. The results given by vaccinators were 31,052 as successful, 430 unsuccessful exclusive of 47 secondary operations, and 1,712 unknown; while on inspection the figures were to be 21,424, 337 and 11,432 respectively, besides, one whose absence could not be accounted for. Excluding the "unknown" or rather the number of children "absent" at the time of inspection from both sides, the vaccinator's figures give the percentages of 98·49 as successful and 1·51 as unsuccessful, while the inspection figures return them as 98·45 and 1·55 respectively. Again, out of 21,424 successful children there were 17,639 or 82·33 per cent. who had good cicatrices on their arms, 1,032 or 4·82 per cent. middling, and 2,753 or 12·85 per cent. "bad." These results show the degree of protection afforded.

The number of children whose arms were inspected without the register test was 11,863, of whom 10,350 were in the Southern, 703 in the Central, 662 in the Western and 148 in the Sind Registration District. In the Gujarát Registration District, no inspections were held without the register test.

Work of Inspectors and Assistant Superintendents.

44. The work of Inspectors and Assistant Superintendents of Vaccination is detailed by Districts and Circles in the table subjoined:—

| Districts and Circles. | Number of encampments. | Number of travelling days. | Distance travelled in miles. | Number of villages visited. | Work tested by calling names from Registers. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Number of vaccinated children inspected. | Present during inspection. | | | | Absent during inspection. | | Number of persons whom the vaccinator has returned as vaccinated. | | | | |
| | | | | | | Successful. | | | Unsuccessful. | Absence accounted for. | Absence unaccounted for. | Successful. | Unsuccessful and doubtful. | Unknown. | Total. | Excess of operations over persons. |
| | | | | | | Good. | Middling. | Bad. | | | | | | | | |
| Western Registration District ... ... | 711 | 1,520 | 15,418 | 1,350 | 41,221 | 26,194 | 7,469 | 5,763 | 1,795 | 10,075 | 3 | 53,582 | 1,450 | 2,310 | 57,342 | 43 |
| Central Registration District ... ... | 654 | 1,516 | 10,803 | 1,594 | 59,401 | 53,941 | 3,020 | 1,842 | 598 | 23,946 | 8 | 77,698 | 629 | 5,035 | 83,362 | 7 |
| Southern Registration District ... ... | 1,018 | 2,459 | 24,238 | 2,555 | 73,191 | 51,334 | 12,456 | 7,801 | 1,600 | 35,438 | 238 | 102,131 | 1,372 | 5,563 | 109,066 | 199 |
| Gujarát Registration District ... ... | 303 | 817 | 8,678 | 1,710 | 38,872 | 31,767 | ... | 6,408 | 697 | 11,542 | ... | 48,985 | 825 | 743 | 50,553 | 139 |
| Sind Registration District ... ... | 812 | 1,379 | 12,738 | 3,243 | 37,913 | 12,347 | ... | 23,452 | 2,114 | 18,405 | 16 | 51,209 | 1,778 | 3,405 | 56,392 | 58 |
| Káthiáwár Native State Circle ... ... ... | Not shown in the returns made to this office. | | | | | | | | | | | | | | | |
| Pálanpur Native State Circle ... ... ... | | | | | | | | | | | | | | | | |
| Baroda Native State Circle ... ... ... | 1,233 | 926 | 7,706 | 1,421 | 38,942 | 32,315 | 3,760 | 1,812 | 1,055 | 8,669 | 8 | 45,883 | 1,070 | 739 | 47,692 | 73 |
| Cutch Native State Circle ... ... ... | 485 | 496 | 3,306 | 871 | 14,232 | 10,179 | 2,378 | 515 | 1,162 | 4,962 | 240 | 18,503 | 790 | 211 | 19,504 | 70 |
| Total ... {1892-93 ... | 5,216 | 9,113 | 82,887 | 13,244 | 303,772 | 218,077 | 29,081 | 47,593 | 9,021 | 119,037 | 513 | 397,991 | 7,914 | 18,006 | 423,911 | 589 |
| {1891-92 ... | 5,216 | 8,764 | 84,230 | 13,307 | 298,805 | 204,328 | 35,287 | 49,358 | 9,922 | 116,422 | 408 | 391,743 | 8,120 | 16,473 | 416,336 | 611 |

Káthiáwár and Pálanpur States have not supplied information regarding inspection work of inspecting officers. In the remaining districts there were 44 Inspectors and 4 Assistant Superintendents who were on travelling duty.

The names of 423,322 children were called from registers, of whom 303,772 were present, and 119,037 absent, but their absence was accounted for, whilst 513 had migrated. Out of 303,772 children inspected, 294,751 were protected and in 9,021 cases the operation was unsuccessful. Again, out of 294,751 successful cases, 218,077 had good cicatrices, 29,081 "middling" and 47,593 "bad." In the registers tested the results were entered as 397,991 successful, 7,914 unsuccessful and doubtful, 18,006 unknown or absent, and 589 secondary operations. The greatest number of children inspected was in the Southern Registration District and the greatest number of villages seen was in Sind.

Conduct of members in the Department.

45. The conduct of the inspecting officers was reported to be satisfactory. The conduct of the vaccinators, clerks and peons with few exceptions was generally good.

Inoculation.

46. No inoculation was reported to have been practised anywhere in the Presidency during the year under report.

Ill effects by vaccination.

47. No instances were reported of any disease having been communicated through vaccination.

Villages visited and not visited by vaccinators.

48. The following statement shows the number of villages visited as well as those left unvisited by the vaccinators of the department in each District and Native State during the year under report:—

| Districts. | Villages in British Territory. | | Villages in Native States. | | Total Villages. | |
|---|---|---|---|---|---|---|
| | Visited. | Not visited. | Visited. | Not visited. | Visited. | Not visited. |
| Western Registration District ... | 5,864 | 1,686 | 292 | 33 | 6,156 | 1,719 |
| Central do. ... | 5,763 | 110 | 642 | 67 | 6,405 | 177 |
| Southern do. ... | 4,958 | 86 | 1,795 | 114 | 6,753 | 200 |
| Gujarát do. ... | 3,231 | 138 | 4,021 | 925 | 7,252 | 1,063 |
| Sind do. ... | 12,471 | 7,053 | 340 | 940 | 12,811 | 7,993 |
| Total ... | 32,287 | 9,073 | 7,090 | 2,079 | 39,377 | 11,152 |

It will be noticed that out of 50,529 villages in the Presidency, 39,377 were visited by vaccinators and 11,152 or 22·07 per cent. were not visited. In British territory 32,287 villages were visited and 9,073 or 28·10 per cent. remained unvisited, whilst in Native States the percentage of unvisited villages was 29·32.

Causes for not visiting villages.

49. The large areas allotted to some vaccinators, together with the nature of the country containing small and widely separated hamlets, are the chief causes of the villages remaining unvisited. In Sind the cholera outbreak and the heavy floods and sickness amongst the vaccinators are stated to have interfered with the work.

Practical instruction in animal vaccination.

50. In the Presidency Circle, Bombay, the class for instruction in animal vaccination was open, as usual, during the months of August and September 1892; 3 Inspectors of Sanitation and Vaccination, 15 vaccinators, 1 compiler, 2 paid and 6 unpaid candidates attended. Of these, 3 Inspectors, 9 vaccinators, 6 candidate vaccinators and 1 compiler successfully passed the test. In addition to these, two vaccinators from the Baroda State, and one Medical Officer from the Pálitána State attended the lectures held in Bombay. One female Medical Graduate, one ex-student of the Grant College and one Inspector of Vaccination of the Bhávnagar State also received practical instruction.

In the Southern Registration District, Dr. Channer, the Deputy Sanitary Commissioner, gave lectures and practical demonstrations in animal vaccination to the several Inspectors of Sanitation and Vaccination and vaccinators during rains.

Small-pox by Collectorates.

51. The table given below shows the deaths from small-pox for the year under report as well as the ages of the deceased and the number of persons successfully operated on in each district of the Bombay Presidency.—

| District and Circle. | | Collectorate. | Deaths from Small-pox. | | | Number of persons successfully operated on. |
|---|---|---|---|---|---|---|
| | | | Total Deaths. | Ages. | | |
| | | | | Under 1 year. | Under 12 years. | |
| Western Registration District. | 1 | Khándesh Collectorate ... | 224 | 64 | 134 | 38,145 |
| | 2 | Násik „ ... | 265 | 81 | 165 | 26,328 |
| | 3 | Thána „ ... | 331 | 82 | 221 | 21,966 |
| | 4 | Kolába „ ... | 277 | 68 | 186 | 17,951 |
| Presidency Circle | 5 | Bombay City ... ... | 265 | 93 | 74 | 21,657 |
| Central Registration Circle. | 6 | Ahmednagar Collectorate ... | 27 | 12 | 10 | 30,088 |
| | 7 | Poona „ ... | 104 | 23 | 62 | 36,241 |
| | 8 | Sholápur „ ... | 66 | 10 | 16 | 27,469 |
| | 9 | Sátára „ ... | 57 | 29 | 17 | 42,276 |
| | 10 | Ratnágiri „ ... | 240 | 62 | 88 | 31,962 |
| Southern Registration District. | 11 | Belgaum ... ... | 155 | 36 | 79 | 34,693 |
| | 12 | Dhárwár ... ... | 484 | 56 | 167 | 32,838 |
| | 13 | Bijápur ... ... | 108 | 17 | 32 | 29,323 |
| | 14 | Kánara ... ... | 25 | 1 | 8 | 15,859 |
| Gujarát Registration District. | 15 | Surat ... ... | 15 | 4 | 10 | 19,915 |
| | 16 | Broach ... ... | 6 | 6 | ... | 9,535 |
| | 17 | Kaira ... ... | 1 | 1 | ... | 23,823 |
| | 18 | Panch Mahals ... ... | 7 | 5 | 1 | 11,770 |
| | 19 | Ahmedabad ... ... | 13 | 5 | 4 | 27,430 |
| Sind Registration District. | 20 | Karáchi ... ... | 14 | 1 | 3 | 15,148 |
| | 21 | Hyderabad ... ... | 26 | 9 | 9 | 22,360 |
| | 22 | Thar and Párkar... ... | 9 | 3 | 4 | 9,529 |
| | 23 | Shikárpur ... ... | 3 | 2 | ... | 31,023 |
| | 24 | Upper Sind Frontier ... | ... | ... | ... | 4,987 |
| | | Total ... | 2,722 | 670 | 1,290 | 582,316 |

Small-pox appeared during the year in every district in the Presidency except in the Upper Sind Frontier. Bombay City is very liable to have the disease imported, but the efficiency of the vaccination work prevents any widespread effects.

Progress in the Western Registration District.

52. The Western Registration District extends over an area of 24,546 square miles, comprising the Collectorates of Khándesh, Násik, Thána and Kolába, and the Native States of Jawhár, Janjira, Dángs and Surgána. It has a population of 3,898,814 persons. It is administered by a Deputy Sanitary Commissioner, who has working under him 8 Inspectors of Sanitation and Vaccination, 2 clerks, 87 vaccinators and candidates, and 90 peons. Vaccination returns are received from one dispensary only. Each vaccinator, on an average, worked amongst a population of 50,629 persons. They primarily vaccinated 116,491, and re-vaccinated 4,005 persons; in the previous year the respective figures were 113,835 and 3,927. There were 109,971 or 94·40 per cent. successful under pri-

mary vaccination and 1,657 or 41·37 per cent. under re-vaccination. These together give the total rate of protection as 28·53 per mille of population, while last year it was 27·72. The total cost was Rs. 41,522-10-7 and the average cost per each successful case was annas 5 and pies 11 against annas 6 and pies 11 in the preceding year. Each vaccinator averaged 1,525 persons. The Medical Officer of the dispensary at Dharangaon in Khándesh returned 32 persons primarily vaccinated and 9 re-vaccinated. There were 1,097 deaths from small-pox against 558 in the previous year.

Khándesh.

53. In the Khándesh Zilla there are 27 vaccinators. Each vaccinator has, on an average, a population of 54,106 persons. The primary vaccinations amounted to 40,727, which in 37,752 instances or 92·94 per cent. were successful; 478 persons were re-vaccinated and in 358 or 74·89 per cent. cases successfully. The rate of protection per mille of population was 26·09. The total cost of vaccination was Rs. 8,399-7-0, which is equal to annas 3 and pies 4 for each successful case. The average number of operations for each vaccinator was 1,526 in the year. 224 deaths from small-pox were returned during the year against 323 last year. The medical officer in charge of dispensary at Dharangaon performed vaccination work as stated in the preceding paragraph.

Násik.

54. The Násik Zilla has 17 vaccinators, each of whom has, on an average, a population of 49,622 persons. There were 28,024 primary vaccinations and 332 re-vaccinations performed and the successful cases were 26,110 and 218 or 93·17 and 65·66 per cent respectively. The rate of protection per mille of population was 31·21. Each vaccinator vaccinated 1,668 persons. The total cost was Rs. 5,250-1-2 or annas 3 and pies 2 per each successful case. There were 265 deaths from small-pox against 75 last year.

Thána.

55. In the Thána Collectorate there are 17 vaccinators, each of whom has, on an average, a population of 53,228 persons. There were 22,667 primary vaccinations and 2,276 re-vaccinations; of these, 21,570 and 396 or 99·57 and 17·40 per cent. were successful. The rate of protection per mille of population was 24·28 against 26·91 last year. Each vaccinator vaccinated 1,467 persons. The total cost was Rs. 5,708-1-11, which gives annas 3 and pies 10 as the average cost per successful case; last year it was the same. No dispensary officer performed vaccination in this zilla. There were 331 deaths from small-pox against 103 in the year preceding.

Kolába.

56. In the Kolába Collectorate there are 14 vaccinators, each of whom has, on an average, a population of 42,491 persons. There were 17,834 primary vaccinations and 692 re-vaccinations; of these, 17,441 and 510 or 97·80 and 73·70 per cent. were successful. The rate per mille of population protected was 35·23 against 32·06 the previous year. Each vaccinator vaccinated 1,323 persons on an average. The total cost was Rs. 4,850-10-3, which gives annas 3 and pies 9 as the average cost per each successful case; last year it was annas 3 and pies 2. No dispensary officer performed vaccination in this zilla. There were 277 deaths from small-pox against 57 in the preceding year.

Native States in the Western Registration District.

57. The Native States in this district are, as stated above, Jawhár, Janjíra, Dángs and Surgana. They have a collective population of 179,929 persons. There are four vaccinators, one for Jawhár, two for Janjira and one for Dángs. The number of persons primarily vaccinated and re-vaccinated by these vaccinators was respectively 7,239 and 227, of which 7,098 and 175 were successful. No re-vaccination was performed in the Dángs State. The rate of protection per mille of population was 40·42. Each vaccinator on an average operated on 1,866 persons. The total expenditure amounted to Rs. 1,424-4-10 and the average cost per each successful case was annas 3 and pies 2.

Presidency Circle.

58. The Presidency Circle comprises the City of Bombay. It has an area of 22 square miles with a population of 821,764 persons. It is administered by a Superintendent of Vaccination paid by Government, who has under his orders one Assistant Superintendent, one head vaccinator, 8 vaccinators, 5 clerks, 13 kárkúns, 3 peons,

1 mukádam and 11 coolies, all paid by the Municipality. During the year under report, there were 20,678 primary vaccinations and 3,203 re-vaccinations, of which the successful cases were 19,941 and 1,665 or 96·44 and 51·98 per cent. respectively. The rate per mille of population protected was 26·29. Each vaccinator, on an average, vaccinated 2,985 persons. The total cost was Rs. 19,530-15-0 and the average cost of each successful case was annas 14 and pies 6, or anna 1 and pies 10 more than that of the year preceding. Vaccination was practised by the medical officers in the House of Correction and Common Jail. They re-vaccinated 100 persons. There were 265 deaths from small-pox against 412 last year.

Central Registration District.

59. The Central Registration District comprises the Collectorates of Ahmednagar, Poona, Sholápur, Sátára, and Ratnágiri, the Native States of Akalkot, the Sátára Jághirs (Aundh, Bhor and Phaltan) and Sávantvádi. It has a population of 5,595,079 and an area of 28,702·26 square miles. It is administered by a Deputy Sanitary Commissioner, who has working under him 7 Inspectors of Sanitation and Vaccination, 2 clerks, 9 Municipal, 1 Cantonment, 74 Local Fund, 6 candidates and 12 Native State vaccinators, and 106 peons. The area for each vaccinator on an average is 298·97 square miles with a population of 58,282 souls. The vaccinators performed 195,263 primary vaccinations and 5,706 re-vaccinations against 189,296 and 4,853 last year. Under each head the successful cases were respectively 182,612 and 2,952 or 93·52 and 51·74 per cent. There were 33·17 persons per 1,000 of population successfully operated on, whilst last year the number was 32·28. The average number of vaccinations performed by each vaccinator was 2,093 and the average cost per successful case calculated on the total cost of Rs. 49,980-15-7 was 4 annas and 4 pies. There were 494 deaths from small-pox against 317 in 1891-92. No vaccination work was performed by dispensary officers in this District during the year.

Ahmednagar.

60. In the Ahmednagar Zilla there are 15 vaccinators and the average population and area per vaccinator are respectively 59,250 persons and 439·6 square miles. There were 32,359 primary vaccinations and 534 re-vaccinations and the successful cases in each kind were 29,709 and 379 respectively, the percentage of success being 91·81 and 70·97. The rate per 1,000 of population protected was 33·85 against 33·80 last year. Each vaccinator vaccinated 2,193 persons. The total cost was Rs. 4,758-8-0, and the average cost for each successful case was annas 2 and pies 6. There were 27 deaths from small-pox against 2 in last year.

Poona.

61. In the Poona Collectorate there are 19 vaccinators. The average population and area per vaccinator were respectively 56,200 persons and 265·28 square miles. Out of 37,289 primary vaccinations and 2,916 re-vaccinations 34,885 and 1,356 or 93·55 and 70·77 per cent. were successful. The rate per mille of population protected was 33·94 against 32·41 last year. Each vaccinator on an average operated on 2,116 persons. The total cost was Rs. 7,122-12-1, which gives like last year the average cost per successful case as annas 3 and pies 2. There were 104 deaths from small-pox against 18 last year.

Sholápur.

62. In the Sholápur Zilla there are 14 vaccinators, each of whom has, on an average, an area of 326·36 square miles and a population of 53,620 souls. There were 29,570 primary vaccinations and 200 re-vaccinations; of these, 27,364 and 105 or 92·54 and 52·50 per cent. were successful. The rate per mille of population protected was 36·59 against 33·45 last year. Each vaccinator vaccinated 2,126 persons on an average. The total cost was Rs. 4,761-12-7, which gives annas 2 and pies 7 as the average cost per each successful case against annas 2 and pies 9 last year. There were 66 deaths from small-pox against 7 last year.

Sátára.

63. In the Sátára Zilla there are 20 vaccinators; each vaccinator has, on an average, a population of 61,299 persons and an area of 240·85 square miles. There were 44,601 persons primarily vaccinated and 1,015 re-vaccinated. The successful cases of each kind were 41,711 or 93·52 and 565 or 55·67 per cent. The rate of protection per mille of population was 34·48 against 33·36 in 1891-92. Each vaccinator vacci-

nated 2,281 persons on an average. The total cost for the Collectorate was Rs. 6,965-9-5 or annas 2 and pies 2 per successful case. Last year it was annas 2 and pies 3. There were 57 deaths from small-pox against 115 last year.

Ratnágiri.

64. In the Ratnágiri Zilla there are 16 vaccinators. Each vaccinator has, on an average, a population of 69,116 persons and an area of 245·13 square miles. The number of primary vaccinations was 33,125 and of re-vaccinations 562. The successful cases were respectively 31,689 and 273 or 95·61 and 48·58 per cent. The rate of protection per mille of population was 28·90 against 29·94 last year. The average number of vaccinations per each vaccinator was 2,105. The total cost was Rs. 4,714-12-4 or annas 2 and pies 4 per successful case. Last year it was annas 2 and pies 3. There were 240 deaths from small-pox against 175 last year.

Native States in the Central Registration District.

65. The Native States in this District are Akalkot, Sátára Jághirs and Sávantvádi, and they have a collective population of 555,920 persons and an area of 3,759 square miles. The Akalkot State has one vaccinator, and the Sátára Jághirs 6, whilst Sávantvádi has 5 vaccinators and one Inspector. The total number operated on was 18,798, of which 479 were re-vaccinations. The successful cases were 17,254 or 94·19 per cent. and 274 or 57·20 per cent. under each kind of operation. The rate of protection per mille of population was 31·53 against 30·30 last year. The total cost was Rs. 3,061-3-11 or annas 2 and pies 9 per successful case against annas 2 and pies 10 last year. Each vaccinator on an average performed 1,566 operations.

Southern Registration District.

66. The Southern Registration District comprises the Collectorates of Belgaum, Dhárwár, Bijápur and Kánara, the Kolhápur States, Jath State, Southern Marátha Jághirs and the Savnaur State under the Dhárwár Agency. It has a population of 4,956,428 persons and an area of 28,781 square miles, and is administered by a Deputy Sanitary Commissioner, who has under his orders 13 Inspectors, 1 Assistant Superintendent of Vaccination, 2 clerks, 112 vaccinators and candidates and 116 peons; 3 additional vaccinators are still required. Vaccination was carried on by the Medical officers of 5 dispensaries in the Sángli State. There were primarily vaccinated 161,166 and re-vaccinated 25,678 persons, of whom 150,886 or 93·62 per cent. and 16,873 or 65·71 per cent. were successful. The rate of protection per mille of population was 33·85. The total cost was Rs. 59,766-8-3, and the average cost per each successful case was annas 5 and pies 8. 772 deaths from small-pox were recorded.

Belgaum.

67. In the Belgaum Collectorate, there are 19 vaccinators, each of whom has, on an average, a population of 53,329 persons. The number of persons under each kind of operation was 34,119 and 4,068, and the successful cases were 32,150 and 2,543, the percentages of success being 94·23 and 62·51. The rate per 1,000 of population protected was 34·24. Each vaccinator on an average vaccinated 2,010 persons. The total expenditure was Rs. 6,392-3-3 or annas 2 and pies 11 per each successful case. There were 155 deaths from small-pox during the year under report.

Dhárwár.

68. In the Dhárwár Zilla, there are in all 22 vaccinators, each of whom has, on an average, a population of 47,787 persons. There were 33,432 persons primarily vaccinated and 3,437 re-vaccinated. The successful cases in each, were 30,595 and 2,243 or 91·51 and 65·26 per cent. Out of every 1,000 inhabitants 31·24 were successfully vaccinated. The average number of vaccinations performed by each vaccinator was 1,676. The total cost for the District was Rs. 8,416-12-0 or annas 4 per each successful case. No medical officer performed any vaccination work in the dispensaries of this zilla. There were 484 deaths from small-pox recorded during the year.

Bijápur.

69. In the Bijápur Collectorate, there are 13 vaccinators, each of whom has, on an average, a population of 61,257 persons. There were 28,291 persons primarily vaccinated and 4,069 re-vaccinated. The successful cases in each were 26,646 and 2,677 or 94·19

and 65·79 per cent. The rate of protection per mille of population was 36·82. The average number of vaccinations performed by each vaccinator was 2,489. The total cost was Rs. 3,975-7-3 or annas 2 and pies 2 per each successful case. There were 108 deaths from small-pox recorded in this Zilla during the year.

Three more vaccinators for the Indi, Sindgi and Muddebihál tálukas are required for this District.

Kánara.

70. The Kánara Zilla has 16 vaccinators, each of whom has, on an average, a population of 27,897 persons. There were 15,290 persons primarily vaccinated and 3,007 re-vaccinated. The successful cases in each were 13,814 and 2,045 respectively, and their percentages were 90·46 and 68·08. Out of every 1,000 persons 35·53 were successfully vaccinated. The average number of vaccinations performed by each vaccinator was 1,144. The total cost was Rs. 4,719-9-3 or annas 4 and pies 9 per each successful case. There were 25 deaths from small-pox recorded in this zilla during the year.

Native States in the Southern Registration District.

71. The States of Kolhápur, the Southern Marátha Jághirs including Jath State, and the Savanúr State under the Dhárwár Agency have a collective population of 1,649,163 persons. There were in all 32 vaccinators, each of whom had, on an average, 51,536 persons to work among. In these States 50,034 persons were primarily vaccinated and 11,097 re-vaccinated, the successful cases being 47,681 and 7,365 and the percentages of success being 95·30 and 66·37 respectively. The rate per mille of population protected was 33·38. Each vaccinator on an average vaccinated 1,910 persons. The total expenditure for vaccination was 13,706-4-2 or annas 3 and pies 11 per each successful case. The Medical Officers of 5 dispensaries in the Sángli State returned 1,750 cases primarily vaccinated and 263 re-vaccinated.

Gujarát Registration District.

72. The Gujarát Registration District comprises the Collectorates of Surat, Broach, Kaira, Panch Maháls and Ahmedabad, and the Native States of Mahi Kántha, Rewa Kanta, Cambay, the Surat Agency and Jambughoda. It has a population of 4,684,201 persons and an area of 20,067 square miles, and is administered by a Deputy Sanitary Commissioner, who has under his orders six Inspectors of Sanitation and Vaccination, 2 clerks, 83 vaccinators and candidates and 87 peons. Each vaccinator has on an average a population of 56,436 persons. There were 143,204 persons primarily vaccinated and 1,322 re-vaccinated with 140,084 successful in primary and 785 in re-vaccination, the percentage of success to operations being 97·82 and 59·38 respectively. The protected per mille was 30·07. Each vaccinator vaccinated 1,853 persons on an average. The total cost was Rs. 40,868-9-5 and the average cost per each successful case was annas 4 and pies 8. There were four dispensaries wherein the vaccination work was performed by the medical officers. There were 42 deaths from small-pox against 83 in the previous year.

Surat.

73. In the Surat Zilla there were 11 vaccinators. Each vaccinator has, on an average, a population of 59,089 persons. There were 19,371 persons primarily vaccinated and 298 re-vaccinated. The successful cases were 18,994 and 110 or 98·05 and 36·91 per cent. respectively. The rate of protection per mille of population was 29·39. Each vaccinator vaccinated on an average 1,788 persons. The total cost was Rs. 4,594-7-8 and the average cost per each successful case was annas 2 and pies 8. In the town of Bulsár the vaccination work was performed by the Medical Officer in charge of dispensary. Small-pox caused 15 deaths in this zilla during the year under report against 17 in the preceding year,

Broach.

74. In the Broach Collectorate there were six vaccinators, each of whom had, on an average, a population of 56,915 persons. There were 9,555 persons primarily vaccinated and 336 re-vaccinated. The successful cases were 9,336 and 199 or 97·71 and 59·23 per cent. respectively. The rate of protection per mille of population was 27·92. Each vaccinator vaccinated 1,648 persons on an average. The total cost was Rs. 1,978-8-0 and the average cost per each successful case was annas 3 and pies 3. No vaccination work was performed by the dispensary Medical Officer.

There were six deaths from small-pox during the year. In the preceding year the deaths from this disease were 20.

Kaira.

75. In the Kaira Zilla, there were 11 vaccinators, each of whom had, on an average, a population of 76,508 persons. There were 24,202 persons primarily vaccinated and 144 re-vaccinated. The successful cases under each kind were 23,648 and 99, and their percentages were 97·71 and 68·75 respectively. The rate of protection per mille of population was 27·25. Each vaccinator on an average vaccinated 2,213 persons. The total cost for the zilla was Rs. 3,681-11-2 and the average cost per each successful case was annas 2 and pies 3. The Medical Officer in the Kaira Jail re-vaccinated 82 persons. There was only one death from small-pox in this zilla during the year, whilst in the last year they numbered 22.

Panch Mahâls.

76. In the Panch Mahâls there are six vaccinators, each of whom has, on an average, a population of 52,236 persons. Out of 11,905 persons primarily vaccinated and 101 re-vaccinated 11,617 and 75 or 97·58 and 74·26 per cent. were successful. The rate of protection per mille of population was 37·30. Each vaccinator on an average vaccinated 2,001 persons. The total expenditure was Rs. 1,952-12-0 which, when divided amongst the successful cases, gives the rate of annas 2 and pies 8 per each case. No vaccination work was performed by the dispensary Medical Officer in this zilla. There were 7 deaths from small-pox during the year against 12 last year.

Ahmedabad.

77. In the Ahmedabad Zilla, there were 15 vaccinators, each of whom had, on an average, a population of 61,427 persons. There were 27,837 persons primarily vaccinated and 156 re-vaccinated. The successful cases were 27,310 under primary and 119 under re-vaccination, or 98·12 and 76·28 per cent. respectively. The rate of protection per 1,000 of population was 29·76. Each vaccinator, on an average, vaccinated 1,866 persons. The total cost was Rs. 4,522-11-7. The average cost per each successful case was annas 2 and pies 8. The dispensary Medical Officer at Khárâghoda vaccinated six persons primarily during the year. Thirteen fatal cases from small-pox were returned in the Collectorate against 12 in the year preceding.

Native States in the Gujarát Registration District.

78. The States of Rewa Kántha, Mahi Kántha, Cambay, the Surat Agency and Jambughoda have a collective population of 1,559,217 persons. There were 29 vaccinators, and the average population to each was 53,766. The number of primarily vaccinated was 49,736 and of re-vaccinated 285; of these 48,598 or 97·71 per cent. and 181 or 63·51 per cent. were successfully operated. on. Protection was afforded to 31·23 per 1,000 of population. Each vaccinator on an average operated upon 1,725 persons. In Sachin and Jambughoda States vaccination was performed by the Local Fund vaccinators. The total cost in all the States was Rs. 8,459-2-0 or annas 2 and pies 9 per each successful case. The Medical Officer at Sádra Dispensary in the Mahi Kántha State primarily vaccinated 153 persons.

Sind Registration District.

79. The Sind Registration District comprises the Collectorates of Karáchi, Hyderabad, Shikárpur, Thar and Párkar, the Upper Sind Frontier and the State of Khairpur. It has an area of 54,123 square miles, and a population of 3,003,711 persons. It is administered by a Deputy Sanitary Commissioner, who has, under his orders, one Superintendent of Vaccination, six Inspectors of Sanitation and Vaccination, 3 clerks, 71 vaccinators and candidates and 79 peons. Each vaccinator has, on an average, a population of 42,306 persons. Those primarily vaccinated numbered 83,596 and re-vaccinated 15,910, the successful cases under each head being 77,055 and 8,795 respectively. The percentage of successful vaccinations to the total operations was 92·18 under primary and 55·28 under re-vaccination. The rate of protection per 1,000 of population was 28·58. Each vaccinator, on an average, vaccinated 1,508 persons. The total cost was Rs. 50,380-1-8 and for each successful it was annas 9 and pies 5. No vaccination was performed by the medical officers in charge of dispensaries. The deaths from small-pox in Sind were 52 against 47 in the preceding year.

Karáchi.

80. In the Karáchi Zilla, there are 17 vaccinators, each of whom has, on an average, a population of 33,228 persons. They performed 15,097 primary and 3,412 re-vaccinations, the percentages of success being 89·17 and 49·41 respectively. The rate per 1,000 of population was 26·82. The total cost amounted to Rs. 6,585-7-4 and the cost of each successful case was annas 6 and pies 11 or 2 annas 5 pies more than last year. Each vaccinator vaccinated on an average 1,089 persons. There were 14 deaths from small-pox against 26 in the year preceding.

Hyderabad.

81. In the Hyderabad Zilla, there are 14 vaccinators, each of whom has, on an average, a population of 65,618 persons. There were 22,092 persons primarily vaccinated and 3,059 re-vaccinated; of these, 20,411 or 92·39 and 1,949 or 63·71 per cent. were successfully operated on. The rate of protection per mille of population was 24·34. Each vaccinator on an average vaccinated 1,796 persons. The total cost amounted to, Rs. 5,496-9-4, which gives for each successful case annas 3 and pies 11 against 3 and 5 respectively last year. Small-pox caused 26 deaths against 14 previous year.

Thar and Párkar.

82. The Thar and Párkar District has a population of 298,203 persons. There are 7 vaccinators each of whom works among 42,600 persons on an average. They vaccinated 8,326 primarily and re-vaccinated 2,243. The rate of success in each case was 8,001 or 96·10 and 1,528 or 68·12 per cent. respectively. Each vaccinator, on an average, vaccinated 1,510 persons. The rate per mille of population vaccinated was 31·95. The total cost was Rs. 2,707-3-9 and the cost per each successful case was 4 annas and 7 pies against 4 annas and 6 pies last year. There were 9 deaths from small-pox, whilst in the preceding year there was no death reported under this head.

Shikárpur.

83. There are, in the Shikárpur Zilla, 21 vaccinators, each of whom has, on an average, a population of 43,595 persons. The services of the municipal female vaccinator, Sukkur, were dispensed with by the municipality from 1st November 1892. There were 30,320 persons primarily vaccinated and 6,295 re-vaccinated, the successful cases being 27,841 or 91·82 per cent. and 3,182 or 50·55 per cent. respectively. The rate of protection per 1,000 of population was 33·89 against 35·11 in the preceding year. Each vaccinator, on an average, vaccinated 1,744 persons. The total cost under vaccination head was Rs. 8,704-3-1 and the cost for each successful case was 4 annas and 1 pie. Small-pox caused 3 deaths against 7 in 1891.

Upper Sind Frontier.

84. There are 4 vaccinators employed in the Upper Sind Frontier District, each of whom has, on an average, a population of 43,637 persons. They performed 4,877 primary and 897 re-vaccinations, the successful cases being 4,539 or 93·07 per cent. and 448 or 49·94 per cent. respectively. The rate per 1,000 of population protected was 28·57. The total cost was Rs. 1,676-6-9 and the cost per each successful case was 5 annas and 5 pies against 4 annas and 4 pies last year. No deaths from small-pox were reported during the year as well as in the previous year.

Khairpur Native State in Sind.

85. The Khairpur State has a population of 131,937 persons. There are 3 vaccinators; one more is still required. They primarily vaccinated 2,884 and re-vaccinated 4; of these 2,801 or 97·12 and 2 or 50·0 per cent. respectively were successful in each kind. Each vaccinator, on an average, vaccinated 963 persons, and the rate per 1,000 of population vaccinated was 21·24. The total cost was Rs. 1,317, and the cost of each successful case was annas 7 and pies 6 against annas 8 last year.

Káthiáwár States.

86. The States of Káthiáwár have a collective population of 2,752,404 and an area of 20,880 square miles. There were 48 vaccinators, each of whom had, on an average, a population of 57,342 persons. The number of persons primarily vaccinated was 86,024 and re-vaccinated was 831; of these 81,194 and 526 or 94·39 and 63·30 per cent. were successful. The rate of protection per mille of population was 29·69 and

the average per each vaccinator was 1,869 persons. The average cost per each successful case was annas 6 and pies 4 calculated on the total cost of Rs. 32,384-3-1. No vaccination work was performed by the dispensary medical officer in Káthiáwár during the year.

Pálanpur States.

87. The Pálanpur States have an area of 7,755 square miles and a population of 645,526 persons. There were 11 vaccinators, each of whom had, on an average a population of 58,684 persons. The number of persons primarily vaccinated was 18,124 and 11, of which the successful cases were 17,609 and 10 respectively. The percentage of successful cases to total operations was 97·17 in primary and 90·90 in re-vaccination. The rate of protection per 1,000 of population was 27·29. The average number of persons vaccinated by each vaccinator was 1,649 and the average cost per each successful case was annas 3 and pies 11 calculated on the total expenditure of Rs. 4,360-15-10. Vaccination was not performed by the medical officer in charge of any dispensary here.

Baroda State.

88. The State of Baroda has a population of 2,414,200 persons and an area of 8,570 square miles. It is administered by a Sanitary Commissioner employed by the Darbár, who has under his orders 4 Inspectors, 36 vaccinators, 8 probationers or candidate vaccinators and 40 peons. Each vaccinator has, on an average, a population of 67,061 persons. There were 72,557 persons primarily vaccinated and 1,572 re-vaccinated; the successful cases under each head were 69,874 and 984 respectively. The percentages were 96·30 under primary and 62·60 under re-vaccination. The rate of protection per mille of population was 29·35. Each vaccinator vaccinated, on an average, 2,059 persons. The total cost was Rs. 13,968-10-8 or annas 3 and pies 2 per each successful case. Dispensary vaccination was discontinued in this State from 1889-90.

Cutch State.

89. The State of Cutch has a population of 558,415 persons and an area of 6,500 square miles. It is administered by a Superintendent of Vaccination who has under him 2 Assistant Superintendents, 17 vaccinators and 19 peons. Of the 17 vaccinators, two are stationed permanently, one in the city of Bhúj and one in Mándvi, two more are entertained to work among low castes, the remaining 13 work in rotation in the different districts into which the State is divided. An average of work is laid down for each district and according as the vaccinator works more or less than the average so his pay varies. The number of persons primarily vaccinated was 18,428 and re-vaccinated was 59. The successful cases were 17,567 and 30 respectively, their percentages being 95·33 and 50·85. The rate of protection per mille of population was 31·51. Each vaccinator operated on an average 1,087 persons. The total expenditure was Rs. 7,236 and the average cost per each successful case was annas 6 and pies 7 against annas 5 and pies 7 in the preceding year.

Aden.

90. Aden has an area of 11·6 square miles and a population of 44,079 persons. The municipality defrays the cost of one male and one female vaccinator and one peon who work under the immediate supervision of the Civil Surgeon. Vaccination stations are established in different parts of the settlement, and the Civil Surgeon has inspected the vaccination work on over 100 different occasions. There were 1,305 primary vaccinations and 52 re-vaccinations against 891 and 106 respectively in the preceding year. Of the primary vaccinations 909 and of the re-vaccinations 34 were successful. The total cost was Rs. 603-12-3, and the average cost per each successful case was annas 10 and pies 3. In the dispensary of Shaikh Othman there were 506 persons primarily vaccinated, and 80 persons re-vaccinated, of which 458 and 67 were successful.

Bushire and Muscat.

91. There was not a separate vaccinator for Bushire or Muscat. The vaccination work was performed by the dispensary medical officers at these places. In the Residency Dispensary, Bushire, there were 465 persons primarily vaccinated and 16 re-vaccinated, of which 426 or 91·61 and 4 or 25 per cent. were successful. In

Muscat Dispensary 83 persons with 80 successful were vaccinated primarily. There was no re-vaccination in Muscat.

Tour of Deputy Sanitary Commissioner, Western Registration District.

92. At the commencement of the year Surgeon-Major Clarkson, who was then in charge, was in Erandol Táluka of the Khándesh Zilla and then proceeded to the Amalner and Dhulia tálukas of the same Collectorate; from these he went to the Málegaon Táluka on his way to Násik. Being appointed to act as Sanitary Commissioner for the Government of Bombay he handed over charge of his duties to the Civil Surgeon, who was in charge of the office till relieved by Surgeon-Captain Anderson at the close of the rains. Surgeon-Captain A. V. Anderson first went to Niphád and inspected the work there and then to Sinnar and Dindori in the Násik Zilla. In the Khándesh Zilla he visited Sháháda, Dhulia, and Sindkheda tálukas and in the Násik Zilla Igatpuri Táluka. He then passed through Sháhápur, Bhiwandi, Wáda, Máhim, Mokháda and Sálsette tálukas and Jawhár State in the Thána Collectorate, and then visited Panvel, Pen, Nágothna, Roha, Mángaon, Mahád, Alibág, and Uran of the Kolába Collectorate inspecting the work of the vaccinators. He then proceeded to Niphád, Chándwad and Málegaon tálukas of the Násik Zilla, and Dhulia, Amalner, Erandol, Jalgaon and Páchora of the Khándesh Zilla, and returned to Niphád Táluka in the Násik Collectorate at the end of the year. In all 2,736 miles were travelled in 117 days, 151 villages visited and 4,891 children inspected.

Tour of the Deputy Sanitary Commissioner, Central Registration District.

93. In the Central Registration District, the Deputy Sanitary Commissioner visited the tálukas of Junnar, Khed, Sirúr, Bhimthadi and Haveli of the Poona Zilla; Nagar, Akola, Párner, Nevása, Kopargaon, Sangamner, Ráhuri, Shevgaon and Shrigonda of the Ahmednagar Zilla; Pandharpur and Mádha of the Sholápur Zilla; Sátára, Wái, Koregaon, Karád and Pátan of the Sátára Zilla; Chiplún, Khed, and Dápoli of the Ratnágiri Zilla; and Atpádi and Bhor Native States. The total number of children inspected was 9,500 in 298 villages. The number of miles travelled was 1,662 in 160 days.

Tour of the Deputy Sanitary Commissioner, Southern Registration District.

94. During April and May the Deputy Sanitary Commissioner, Southern Registration District, was in the Kánara Collectorate completing the inspection of that District which had been commenced during the early part of the year. In May he inspected the famine relief camps of the Gokák Táluka, and also visited Sháhápur of the Sángli State. During the rains he inspected the work of the Shirhatti vaccinator in Sángli State. In October he inspected the animal vaccine depôt at Gadag Bettigeri. In November he passed through the southern tálukas of the Belgaum Zilla and inspected Dhárwár Town, the animal vaccine depôt, the táluka vaccination work, Dhárwár District Jail, and Civil Hospital and Training College. He then visited the large and important town of Hubli and inspected the animal vaccination depôt, dispensary and town. The "Unkal Gang" employed in the water-works at Unkal was inspected. He visited Hubli Táluka, and passed through the Bankápur Táluka, visiting *en route* Kalghatgi, the town and táluka. In December he visited Segaum, the head-quarter of the Bankápur Táluka, and Bankápur Town. From Bankápur he went to the Native State of Savnur and on return to Segaum he visited Haveri in the Karajgi Táluka. On the 15th December he marched to Hángal and went to Haveri. From Haveri he proceeded to Karajgi and visited Kod and Kerur, the head-quarter of that táluka. He then marched south to Ránebennur, visiting the large towns of Byádgi, Ránebennur and Motibennur. After completing the southern tálukas of the Dhárwár Zilla he visited Laxumeshwar of the Miraj Senior State, and passed through Shirhatti State to Gadag, Navalgund and Ron. On the 1st March he inspected the Gudgeri Táluka of the Miraj Junior State. He travelled over 2,223 miles in 127 days and inspected 576 children with register and 10,350 without register in 146 villages.

Tour of Deputy Sanitary Commissioner, Gujarát Registration District.

95. In the Gujarát Registration District, the Deputy Sanitary Commissioner visited the town of Surat and passed through the tálukas of Chorási, Olpád, and Mándvi in the Surat Zilla; the tálukas of Ankleshwar, Broach, Hánsot and

Amode in the Broach Zilla; the tálukas of Mehmedabad, Kapadwanj, Nadiád, Anand, Borsad and Thásra and the town of Kaira in the Kaira Collectorate; the táluka of Godhra in the Panch Maháls; and the tálukas of Daskroi, Modása, Viramgám and the towns of Ahmedabad and Viramgám in the Ahmedabad Zilla. He also visited Rewa Kántha and Mahi Kántha Native States. Altogether he travelled over 1,849 miles in 124 days and inspected 6,478 children in 218 villages.

Tour of Deputy Sanitary Commissioner, Sind Registration District.

96. The Deputy Sanitary Commissioner, Sind Registration District, commenced his annual tour during the year from Karáchi and visited the tálukas of Karáchi, Kohistan, Sehwan (Karáchi), Sakrand, Hala, Hyderabad, Tando Mahomedkhán, Tando Bágo, Dighri, Badin, Tando Allahyar (Hyderabad), Mirpur Batoro, Sujawal, Jati, Sháhábandar, Ghorábári, Mirpur, Sakro (Karáchi), Naushahro, Shikárpur (Shikárpur), Jacobabad (Jacobabad), Rohri, Sukkur, Ghotki, Mirpur Mathelo, Ubauro, Ratodero, Lárkhána, Kambar, Labdárya, Mehár, Kákar (Shikárpur), and Dádu (Karáchi). He went through the less frequented parts of Sind this year where the villages are small and at long distances from each other. He travelled 2,849 miles in 180 days and inspected 1,769 vaccinated children in 141 villages.

Compulsory Vaccination Act.

97. Bombay Act I of 1892 has been passed into law. The question as to what areas to apply it is still under consideration. There is no doubt that keeping up fresh lymph by arm-to-arm vaccination is becoming difficult, especially in large towns, owing to the refusal of parents to allow the lymph to be extracted from the ripe vesicles, there is not nearly so much objection to the operation for inserting the fresh lymph. It is hoped that the using of animal lymph will be pushed on without friction in all divisions as has been done in the Central Registration District, and then a Compulsory Act can be put in force in the areas using animal lymph without any trouble.

Compulsory Vaccination Act in Bombay City.

98. In the City of Bombay a Compulsory Act has been in force for 15 years, and is worked well, but proper accommodation is required. The following table shows the progress in the protection of infants during the last 17 years, the first two being before, and the last 15 after, the introduction of the Act:—

| Years. | | Births returned as having been registered. | Deaths registered among children under one year old. | Children available for Vaccination. | | Children under one year successfully vaccinated. | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Births *minus* Deaths. | At the rate of 31 per 1,000 of Population. | Number. | Ratio per 100 on those in Column 4. | Ratio per 100 on those in Column 5. |
| 1 | | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Before the introduction of the Act. | 1876-77.. | 13,466 | 6,179 | 7,287 | 19,977 | 9,340 | 185·03 | 49·26 |
| | 1877-78.. | 13,720 | 7,781 | 5,939 | 19,977 | 7,212 | 121·43 | 36·10 |
| After the introduction of the Act. | 1878-79 .. | 13,896 | 6,417 | 7,479 | 19,977 | 6,558 | 87·69 | 32·83 |
| | 1879-80 .. | 14,331 | 5,274 | 9,067 | 19,977 | 7,825 | 86·30 | 39·17 |
| | 1880-81 .. | 16,997 | 6,104 | 10,893 | 19,977 | 10,416 | 95·62 | 52·14 |
| | 1881-82 .. | 16,381 | 6,279 | 10,102 | 23,969 | 12,017 | 118·96 | 50·14 |
| | 1882-83 .. | 15,094 | 5,720 | 9,374 | 23,969 | 14,940 | 159·38 | 62·23 |
| | 1883-84 .. | 14,932 | 6,514 | 8,418 | 23,969 | 12,331 | 146·48 | 51·45 |
| | 1884-85 .. | 14,377 | 6,340 | 8,037 | 23,969 | 13.449 | 167·24 | 56·11 |
| | 1885-86 .. | 14,685 | 6,265 | 8,420 | 23,969 | 13,547 | 160·89 | 56·52 |
| | 1886-87 .. | 14,679 | 5,899 | 8,780 | 23,969 | 13,270 | 151·14 | 52·01 |
| | 1887-88 .. | 15,166 | 5,903 | 9,263 | 23,969 | 14,588 | 157·50 | 60·86 |
| | 1888-89 .. | 16,470 | 6,582 | 9,888 | 23,969 | 14,201 | 143·62 | 59·25 |
| | 1889-90 .. | 15,240 | 6,527 | 8,713 | 23,969 | 14,179 | 162·73 | 59·16 |
| | 1890-91 .. | 15,568 | 5,941 | 9,627 | 23,969 | 15,629 | 162·34 | 65·20 |
| | 1891-92 .. | 15,518 | 7,420 | 8,098 | 25,474 | 16,478 | 203·48 | 64·29 |
| | 1892-93 .. | 15,485 | 7,768 | 7,717 | 25,474 | 15,891 | 205·92 | 62·38 |

Compulsory vaccination in Karáchi Town.

99. In the town of Karáchi also the Compulsory Vaccination Act (No. IV of 1879) has been in force for the last 13 years, and the following table gives the results:—

| Years. | Births returned as having been registered. | Deaths registered among children under 1 year. | Children available for Vaccination. | | Children under 1 Year successfully vaccinated. | | |
|---|---|---|---|---|---|---|---|
| | | | Births minus Deaths. | At the rate of 31 per 1,000 of Population. | Number. | Ratio per 100 on those in Column 4. | Ratio per 100 on those in Column 5. |
| 1880-81 | 1,878 | 309 | 1,569 | 2,118 | 1,917 | 122·18 | 90·51 |
| 1881-82 | 2,405 | 489 | 1,916 | 2,118 | 2,516 | 131·32 | 118·79 |
| 1882-83 | 2,985 | 514 | 2,471 | 2,118 | 2,827 | 114·41 | 133·47 |
| 1883-84 | 3,273 | 728 | 2,545 | 2,118 | 2,693 | 105·42 | 126·68 |
| 1884-85 | 3,189 | 706 | 2,483 | 2,118 | 3,003 | 120·94 | 141·78 |
| 1885-86 | 3,056 | 635 | 2,421 | 2,118 | 3,084 | 127·39 | 145·68 |
| 1886-87 | 3,340 | 841 | 2,499 | 2,118 | 3,015 | 120·65 | 142·35 |
| 1887-88 | 3,690 | 959 | 2,731 | 2,118 | 3,175 | 116·26 | 149·91 |
| 1888-89 | 3,722 | 935 | 2,787 | 2,118 | 3,647 | 130·86 | 172·19 |
| 1889-90 | 3,798 | 1,081 | 2,717 | 2,118 | 3,246 | 119·04 | 153·26 |
| 1890-91 | 4,022 | 1,018 | 3,004 | 3,261 | 3,347 | 111·42 | 102·63 |
| 1891-92 | 4,263 | 1,226 | 3,037 | 3,261 | 3,545 | 116·73 | 108·71 |
| 1892-93 | 4,343 | 1,482 | 2,861 | 3,261 | 2,967 | 103·70 | 90·98 |

## Remarks of the Supervising Officers.

100. Surgeon-Major O. H. Channer, Deputy Sanitary Commissioner Southern Registration District, in his annual report for the year 1891-92 makes the following remarks :—

System of vaccination.

"The system of vaccination requires re-organization. At present it is non-compulsory and vaccinators are obliged to depend on the willingness or otherwise of parents for the selection of lymph and its carriage from village to village. In the cultivation of the vaccine disease the 'vaccina variola' throughout the numerous population groups, so that the lymph shall be maintained in sufficient quantity and of standard purity, is a task beset with difficulties only known to those who are constantly engaged in the work. There are certain requirements in the cultivation of vaccine which must be fulfilled, otherwise the stock becomes degenerated or even lost entirely. In arm-to-arm cultivation under a non-compulsory system the command of the lymph supply is beyond the control of the trained vaccinators. It is necessary that it should be entirely under the control of the operators. Owing to this want of control, vaccinators are perforce obliged to resort to inferior methods of carrying on work and hence much imperfect vaccination is performed. Unless the cow-pox disease is truly invaccinated and passes through the course in a typical manner, imperfect results follow and the protection against small-pox becomes an imposture. People are deluded and lose faith in an art the requirements of which they are absolutely ignorant of. Under the above circumstances a system of animal vaccination would at once place the command of the lymph supply in the hands of the vaccination staff, and get rid of the many difficulties connected with the arm-to-arm system. The lymph supply would always be in sufficient quantity and under careful arrangements the quality would be assured."

During the year 1892-93 animal vaccination was continued in Belgaum, Dhárwár, Hubli and Gadag-Betigeri Towns. It was temporarily stopped in Gadag owing to local difficulties on account of the famine.

101. Dr. Channer in his report for 1891-92 remarks as follows on the subject of travelling allowance to the Local Fund vaccinators :—

Travelling allowance to Local Fund vaccinators.

"Considering the enormous amount of district travelling vaccinators have to perform and their low pay, it is only fair they should be given travelling allowance. Nearly all the vaccinators except those of Kánara are obliged to keep ponies in order to carry on their work. From returns received from the vaccinators the ponies cost on the average Rs. 25, and the cost of keeping is about Rs. 8 per mensem. Circle Inspectors of the Agricultural Department with far less travelling than the vaccinators draw Rs. 7 per mensem permanent batta, and nearly all Government servants draw some travelling allowance, and therefore it is only fair that vaccinators should be placed on the same footing."

102. Then again as regards vaccinators' peons he says :—

Pay and pension of vaccinators' peons.

"Vaccinators' peons who are important subordinate servants, and are of the greatest use in assisting the vaccinator in his work, receive far too low a rate of pay. They get no travelling allowance, no pension. Under these circumstances there are numerous complaints from vaccinators every year owing to the difficulty of obtaining strong, steady and hard-working men. The peons at present get Rs. 7 per mensem. They should receive at least Rs. 8, and travelling allowance at annas 2 per diem. Without the hope of pension in old age it is not to be expected these poorly paid men will give long and faithful service. Obviously in the interests of the people the peons should be placed on an equality with peons in Government service."

103. On school vaccination Dr. Channer remarks :—

School vaccination.

"Great efforts have been made to push forward both primary and re-vaccination in the schools of this District, but the work will never be efficiently conducted until the Compulsory Vaccination Act is introduced. All children over 12 years of age attending school should be re-vaccinated."

Particulars of vaccination verified by inspecting officers.

104. As ordered by the Government of India in their letter, Home Department (Sanitary), No. 6 Sany.—194, dated 29th August 1892, embodied in Government Resolution in the General Department, No. 3253 of 12th September 1892, a statement showing particulars of vaccination verified by inspecting officers is appended to this report as Annual Statement No. V, and the following is the summary of it by Districts :—

| District. | Total number of persons vaccinated. | Total number inspected. By Deputy Sanitary Commissioners. | Total number inspected. By Inspectors of Sanitation and Vaccination or Superintendents. | Percentage of inspections to total number vaccinated. By Deputy Sanitary Commissioners. | Percentage of inspections to total number vaccinated. By Inspectors of Sanitation and Vaccination or Superintendents. | Percentage of cases found successful of total number inspected. By Deputy Sanitary Commissioners. | Percentage of cases found successful of total number inspected. By Inspectors of Sanitation and Vaccination or Superintendents. | Percentage of success reported by Vaccinators. |
|---|---|---|---|---|---|---|---|---|
| Western Registration District ... ... ... | 113,071 | 4,162 | 39,518 | 3·68 | 34·95 | 97·14 | 95·59 | 92·32 |
| Central Do. ... ... ... | 182,171 | 8,613 | 56,391 | 4·73 | 30·96 | 99·18 | 98·93 | 92·24 |
| Southern Do. ... ... ... | 125 713 | 684 | 41,320 | 0·13 | 32·87 | 99·74 | 98·19 | 89·66 |
| Gujarát Do. ... ... ... | 94,906 | 5,106 | 29,914 | 5·38 | 31·52 | 98·78 | 98·33 | 97·44 |
| Sind Do. ... ... ... | 96,618 | 1,769 | 35,115 | 1·83 | 36·34 | 91·18 | 94·28 | 85·96 |
| Total ... | 612,479 | 20,034 | 202,258 | 3·27 | 33·02 | 97·96 | 97·23 | 91·54 |
| Native States ... | 235,086 | 1,875 | 100,786 | 0·80 | 42·87 | 95·78 | 96·00 | 94·51 |
| Grand Total ... | 847,565 | 21,909 | 303,044 | 2·59 | 35·75 | 97·77 | 96·82 | 92·36 |

Total inspection.

Taking the work of the Deputy Sanitary Commissioners, Superintendents, Assistant Superintendents and Inspectors together, there were 5,422 encampments, 94,206 miles travelled in 9,821 days, and 337,396 children inspected in 14,198 villages. Out of every 100 persons operated on 34·19 were inspected during the year.

Aid received from Civil, Revenue, Political and other officers.

105. The Civil, Revenue and Political Officers have rendered aid when required to all the Officers of this Department. I would bring to the favourable notice of Government the tact and energy shown in the discharge of their duties by the supervising officers Drs. Channer, Street and Peacock, and Assistant Surgeon S. V. Kantak, who have been in charge throughout the year. Surgeon-Captains Dyson and Anderson have recently entered and have worked well. My Assistant, Mr. Keess, and the office establishment worked hard and gave me every assistance.

JOHN CLARKSON, Surgeon Major,
Acting Sanitary Commissioner.

*7th June 1893.*

# APPENDIX.

## A.—VACCINATION RETURNS.

Statement No. I., showing Particulars of Vaccination in the Bombay Presidency during the year 1892-93.

| Number. | Circles and Districts. | Population of Districts according to Census of 1891. | Average Population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. | Primary Vaccinations. | | | | Re-vaccination. | | Percentage of Successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all Ages. | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | THE WESTERN REGISTRATION DISTRICT. | | | | Males. | Females. | Total. | | | | | | | | | | | | | | |
| | KHÁNDESH COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 1 | Nandurbár Town, Local Fund. | 7,670 | 16,674 | ... | P. 47 | 39 | 86 | 86 | 86 | 48 | 12 | 60 | ... | ... | 69·77 | ... | 7·82 | 75 | 9·78 | 4 | 0·52 |
| 2 | Dhulia Town ... ... ... | 21,880 | 11,891 | 1 | P. 436<br>R. 16 | 425<br>8 | 861<br>24 | 885 | 864 | 651 | 120 | 771 | 24 | 15 | 89·55 | 62·50 | 35·92 | 910 | 41·59 | 6 | 0·27 |
| 3 | Chopda Town, Local Fund ... | 15,655 | 32,615 | ... | P. 232 | 276 | 508 | 508 | 508 | 308 | 198 | 507 | ... | ... | 99·80 | ... | 32·38 | 425 | 27·15 | ... | ... |
| 4 | Nasirabad Town do. ... | 11,462 | 67,424 | 1 | P. 127<br>R. 11 | 130<br>9 | 257<br>20 | 277 | 262 | 194 | 42 | 237 | 20 | 5 | 92·22 | 25·00 | 21·11 | 275 | 23·99 | 3 | 0·26 |
| 5 | In the 22 Rural Circles, Local Fund ... ... ... ... | 1,404,184 | 129 | 25 | P. 19,424<br>R. 286 | 19,591<br>148 | 39,015<br>434 | 1,578 | 39,055 | 27,969 | 8,150 | 36,177 | 434 | 338 | 92·73 | 77·88 | 26·00 | 36,161 | 25·75 | 550 | 0·39 |
| | Total ... | 1,460,851 | 134 | 27 | P. 20,266<br>R. 313 | 20,461<br>165 | 40,727<br>478 | 1,526 | 40,775 | 29,170 | 8,522 | 37,752 | 478 | 358 | 92·94 | 74·89 | 26·09 | 37,846 | 25·91 | 563 | 0·38 |
| | NÁSIK COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 6 | Yeola Town ... ... ... | 18,861 | 85,732 | 1 | P. 370<br>R. 4 | 333<br>... | 703<br>4 | 707 | 703 | 567 | 54 | 625 | 4 | 1 | 88·90 | 25·00 | 33·19 | 512 | 27·14 | 17 | 0·90 |
| 7 | Násik do. ... ... ... | 24,429 | 43,623 | 1 | P. 419<br>R. 9 | 420<br>1 | 839<br>10 | 849 | 839 | 601 | 233 | 834 | 10 | 7 | 99·40 | 70·00 | 34·42 | 889 | 36·39 | 6 | 0·24 |
| 8 | Devláli Cantonment ... ... | 4,104 | ... | ... | P. 27 | 33 | 60 | 60 | 60 | 24 | 3 | 27 | ... | ... | 45·00 | ... | 6·58 | 45 | 10·96 | ... | ... |
| 9 | Málegaon ... Cantonment ... | 3,759 | 3,007 | 1 | P. 88 | 68 | 156 | 156 | 157 | 126 | 20 | 146 | ... | ... | 93·59 | ... | 30·86 | 414 | 110·14 | 2 | 0·53 |
| | Málegaon ... Municipal ... | | | | P. 235<br>R. 3 | 187<br>... | 422<br>3 | 425 | 423 | 285 | 90 | 378 | 3 | 1 | 89·57 | 33·33 | 24·45 | | | | |
| 10 | In the 12 Rural Circles. Local Fund... | 792,429 | 133 | 14 | P. 13,024<br>R. 206 | 12,820<br>109 | 25,844<br>315 | 1,868 | 25,907 | 18,212 | 5,718 | 24,100 | 315 | 209 | 93·25 | 66·35 | 31·29 | 19,585 | 24·72 | 254 | 0·32 |
| | Total ... | 843,582 | 142 | 17 | P. 14,163<br>R. 222 | 13,861<br>110 | 28,024<br>332 | 1,668 | 28,089 | 19,815 | 6,118 | 26,110 | 332 | 218 | 93·17 | 65·66 | 31·21 | 21,445 | 25·42 | 279 | 0·33 |
| | THÁNA COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 11 | Kalyán Town ... ... ... | 12,608 | 5,275 | 1 | P. 187<br>R. 19 | 183<br>6 | 370<br>25 | 860 | 370 | 184 | 152 | 340 | 25 | 6 | 91·89 | 24·00 | 27·60 | 359 | 28·47 | 3 | 0·23 |
| 12 | Bhiwandi do. ... ... ... | 14,387 | 38,884 | | P. 233<br>R. 3 | 225<br>4 | 458<br>7 | | 459 | 220 | 188 | 411 | 7 | 1 | 89·74 | 14·29 | 28·64 | 82 | 5·70 | ... | ... |
| 13 | Thána do. ... ... ... | 17,455 | 3,828 | 1 | P. 386<br>R. 1,442 | 305<br>100 | 691<br>1,542 | 2,233 | 691 | 577 | 7 | 691 | 1,542 | 9 | 100·00 | 0·58 | 40·10 | 729 | 41·76 | 4 | 0·23 |
| 14 | Bandora do. ... ... ... | 18,317 | 8,141 | 1 | P. 131<br>R. 14 | 151<br>15 | 282<br>29 | 311 | 282 | 196 | 43 | 240 | 29 | 7 | 85·11 | 24·14 | 13·48 | 257 | 14·05 | ... | ... |
| 15 | In the 10 Rural Circles. Local Fund . | 842,101 | 215 | 14 | P. 9,776<br>R. 357 | 9,574<br>315 | 19,350<br>672 | 1,430 | 19,379 | 11,403 | 6,940 | 18,547 | 672 | 373 | 95·85 | 55·51 | 22·47 | 21,063 | 25·01 | 223 | 0·26 |
| | In the 10 Rural Circles. Municipal ... | | | | P. 769<br>R. 1 | 747<br>... | 1,516<br>1 | 1,517 | 1,516 | 909 | 424 | 1,341 | 1 | ... | 88·46 | ... | 1·59 | | | | |
| | Total ... | 904,868 | 230 | 17 | P. 11,482<br>R. 1,836 | 11,185<br>440 | 22,667<br>2,276 | 1,467 | 22,697 | 13,489 | 7,754 | 21,570 | 2,276 | 396 | 99·57 | 17·40 | 24·28 | 22,490 | 24·85 | 230 | 0·25 |

| Number. | Circles and Districts. | Population of Districts according to Census of 1891. | Average Population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator | Primary Vaccination. | | | | Re-vaccination. | | Percentage of Successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Rate per 1,000. |
| | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all Ages. | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | THE WESTERN REGISTRATION DISTRICT—*contd.* | | | | Males. | Females. | Total. | | | | | | | | | | | | | | |
| | KOLÁBA COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 16 | Mahád Town, Local Fund ... | 6,870 | 13,740 | ... | P. 85<br>R. 6 | 89<br>5 | 174<br>11 | 185 | 174 | 110 | 61 | 172 | 11 | 9 | 98·85 | 81·81 | 2·63 | 176 | 25·61 | 6 | 0·87 |
| 17 | Panvel do. do. ... | 10,420 | 52,100 | ... | P. 90<br>R. 6 | 87<br>1 | 177<br>7 | 184 | 177 | 112 | 55 | 172 | 7 | 7 | 97·17 | 100·00 | 17·17 | 322 | 30·90 | 6 | 0·57 |
| 18 | Uran Town ... ... ... | 11,422 | 1,142 | ... | ..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 190 | 16·63 | ... | ... |
| 19 | Pen do. ... Local Fund | 7,462 | 4,146 | ... | P. 8<br>R. ... | 7<br>3 | 15<br>3 | 18 | 15 | 15 | ... | 15 | 3 | 1 | 100·00 | 33·33 | 2·14 | 200 | 26·80 | ... | ... |
| | Municipal ... | | | | P. 11<br>R. 2 | 16<br>4 | 27<br>6 | 33 | 27 | 16 | 8 | 25 | 6 | 2 | 92·59 | 33·33 | 3·62 | | | | |
| 20 | Alibág do. ... Local Fund | 5,888 | 9,813 | | P. 59<br>R. 4 | 50<br>... | 109<br>4 | 113 | 109 | 67 | 39 | 109 | 4 | 3 | 100·00 | 75·00 | 19·02 | 136 | 26·49 | 9 | 1·53 |
| | Municipal ... | | | | P. 9 | 4 | 13 | 13 | 14 | 10 | 4 | 14 | ... | ... | 100·00 | ... | 2·38 | | | | |
| 21 | In the 7 Rural Circles ... Local Fund | 467,522 | 250 | 14 | P. 8,702<br>R. 415 | 8,595<br>246 | 17,297<br>661 | 1,283 | 17,322 | 13,371 | 3,414 | 16,915 | 661 | 488 | 97·79 | 73·83 | 37·22 | 14,476 | 30·96 | 98 | 0·21 |
| | Municipal ... | | | ... | P. 9 | 13 | 22 | 22 | 22 | 15 | 4 | 19 | ... | ... | 86·36 | ... | 0·04 | | | | |
| | Total ... | 509,584 | 270 | 14 | P. 8,973<br>R. 433 | 8,861<br>259 | 17,834<br>692 | 1,323 | 17,860 | 13,716 | 3,585 | 17,441 | 692 | 510 | 97·30 | 73·70 | 35·23 | 15,520 | 30·45 | 119 | 0·23 |
| | NATIVE STATES— | | | | | | | | | | | | | | | | | | | | |
| 22 | Mevás State ... ... ... | ... | ... | ... | P. 613<br>R. 35 | 616<br>26 | 1,229<br>61 | 1,290 | 1,229 | 286 | 509 | 1,156 | 61 | 16 | 94·06 | 26·23 | ... | 648 | ... | ... | ... |
| 23 | Dáng Territory ... ... | 32,920 | 50 | 1 | P. 641 | 608 | 1,249 | 1,249 | 1,249 | 291 | 457 | 1,205 | ... | ... | 96·48 | ... | 36·60 | 508 | 15·43 | ... | ... |
| 24 | Jawhár ... ... ... ... | 52,831 | 99 | 1 | P. 986<br>R. 12 | 918<br>47 | 1,904<br>59 | 1,963 | 1,904 | 1,425 | 475 | 1,904 | 59 | 59 | 100·00 | 100·00 | 37·16 | 1,729 | 32·73 | ... | ... |
| 25 | Janjira ... ... ... ... | 81,780 | 252 | 2 | P. 1,432<br>R. 68 | 1,425<br>39 | 2,857<br>107 | 1,482 | 2,857 | 2,321 | 492 | 2,833 | 107 | 100 | 99·16 | 9..46 | 35·86 | 2,517 | 30·78 | ... | ... |
| 26 | Surgána ... ... ... ... | 12,398 | 34 | ... | ..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 83 | 6·69 | ... | ... |
| | TOTAL BY ESTABLISHMENTS IN WESTERN REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | | |
| | Cantonment ... ... ... | 7,863 | 629 | 1 | P. 115 | 101 | 216 | 216 | 217 | 150 | 23 | 173 | ... | ... | 80·09 | ... | 22·10 | 208 | 26·45 | 1 | 0·13 |
| | Municipal ... ... ... | 163,129 | 6,634 | 6 | P. 3,195<br>R. 1,513 | 3,009<br>138 | 6,204<br>1,651 | 1,309 | 6,210 | 4,231 | 1,327 | 5,689 | 1,651 | 49 | 91·70 | 2·97 | 35·17 | 5,777 | 35·41 | 55 | 0·33 |
| | Local Fund ... ... ... | 3,547,893 | 157 | 68 | P. 51,574<br>R. 1,291 | 51,258<br>836 | 102,832<br>2,127 | 1,543 | 102,994 | 71,809 | 24,629 | 97,011 | 2,127 | 1,433 | 94·34 | 67·37 | 27·75 | 91,316 | 25·74 | 1,135 | 0·32 |
| | Native State ... ... ... | 179,929 | 96 | 4 | P. 3,672<br>R. 115 | 3,567<br>112 | 7,239<br>227 | 1,866 | 7,239 | 4,323 | 1,933 | 7,098 | 227 | 175 | 98·05 | 77·09 | 40·42 | 5,485 | 30·48 | ... | ... |
| | Grand Total ... | 3,898,814 | 151 | 79 | P. 58,556<br>R. 2,919 | 57,935<br>1,036 | 116,491<br>4,005 | 1,525 | 116,660 | 80,513 | 27,912 | 109,971 | 4,005 | 1,657 | 94·40 | 41·37 | 28·63 | 102,786 | 26·36 | 1,191 | 0·31 |
| | THE PRESIDENCY CIRCLE. | | | | | | | | | | | | | | | | | | | | |
| 27 | Bombay City (Municipal) ... | 821,764 | 37,353 | 8 | P. 10,516<br>R. 2,567 | 10,162<br>636 | 20,678<br>3,203 | 2,985 | 20,799 | 15,891 | 3,105 | 19,941 | 3,203 | 1,665 | 96·44 | 51·98 | 26·29 | 20,335 | 24·75 | 291 | 0·35 |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | THE CENTRAL REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | | |
| | AHMEDNAGAR COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 28 | Ahmednagar Town ... ... | 36,083 | 72,166 | 1 | P. 887<br>R. 217 | 752<br>16 | 1,639<br>233 | 1,872 | 1,639 | 1,048 | 410 | 1,592 | 233 | 205 | 97·13 | 87·98 | 49·80 | 1,504 | 41·68 | 15 | 0·42 |
| 29 | Do. Cantonment ... | 4,130 | ... | ... | P. 81<br>R. 85 | 75<br>... | 156<br>85 | 241 | 156 | 124 | 25 | 150 | 85 | 63 | 96·15 | 74·12 | 51·57 | 142 | 34·38 | 1 | 0·24 |
| 30 | Sangamner Town, Local Fund. | 9,733 | 16,497 | ... | P. 241<br>R. 5 | 220<br>2 | 461<br>7 | 468 | 461 | 285 | 145 | 432 | 7 | 6 | 93·71 | 85·71 | 45·00 | 339 | 34·83 | 1 | 0·10 |
| 31 | In the 11 Rural Circles. ... | 838,809 | 127 | 14 | P. 15,241<br>R. 195 | 14,862<br>14 | 30,103<br>209 | 2,165 | 30,140 | 22,647 | 4,842 | 27,535 | 209 | 105 | 91·47 | 56·24 | 32·95 | 27,584 | 32·88 | 75 | 0·09 |
| | Total ... | 888,755 | 135 | 15 | P. 16,450<br>R. 502 | 15,909<br>32 | 32,359<br>534 | 2,193 | 32,396 | 24,104 | 5,422 | 29,709 | 534 | 379 | 91·81 | 70·97 | 33·85 | 29,569 | 33·27 | 92 | 0·10 |
| | POONA COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 32 | Poona City ... ... ... | 118,790 | 24,645 | 2 | P. 1,921<br>R. 244 | 1,852<br>107 | 3,773<br>351 | 2,062 | 3,773 | 2,267 | 1,308 | 3,669 | 351 | 293 | 97·24 | 83·48 | 33·35 | 3,593 | 30·24 | 82 | 0·69 |
| 33 | Poona and Kirkee Cantonment ... ... ... ... | 46,045 | 4,978 | 2 | P. 1,749<br>R. 881 | 952<br>203 | 2,701<br>1,084 | 1,892 | 2,701 | 1,624 | 796 | 2,550 | 1,084 | 620 | 94·41 | 57·10 | 68·85 | 2,105 | 45·71 | 5 | 0·11 |
| 34 | Junnar Town, Local Fund ... | 11,905 | 33,069 | ... | P. 203<br>R. 6 | 202<br>1 | 405<br>7 | 412 | 405 | 248 | 125 | 378 | 7 | 5 | 93·33 | 71·43 | 32·17 | 398 | 33·43 | ... | ... |
| 35 | In the 8 Rural Circles. Local Fund. | 891,060 | 177 | 15 | P. 15,025<br>R. 161 | 15,140<br>17 | 30,165<br>178 | 2,023 | 30,168 | 21,159 | 6,826 | 28,091 | 178 | 115 | 93·12 | 64·61 | 31·65 | 25,832 | 28·99 | 167 | 0·19 |
| | In the 8 Rural Circles. Municipal ... | | | ... | P. 136<br>R. 1,179 | 109<br>117 | 245<br>1,296 | 1,541 | 245 | 114 | 47 | 197 | 1,296 | 323 | 80·41 | 24·92 | 0·58 | | | | |
| | Total ... | 1,067,800 | 212 | 19 | P. 19,034<br>R. 2,471 | 18,255<br>445 | 37,289<br>2,916 | 2,116 | 37,292 | 25,412 | 9,102 | 34,885 | 2,916 | 1,356 | 93·55 | 70 77 | 33 94 | 31,928 | 29·90 | 254 | 0·24 |
| | SHOLÁPUR COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 36 | Sholápur Town... ... ... | 61,915 | 9,525 | 1 | P. 1,292<br>R. 101 | 1,254<br>8 | 2,546<br>109 | 2,655 | 2,546 | 1,582 | 617 | 2,242 | 109 | 53 | 88·06 | 48·62 | 37·07 | 2,171 | 35·06 | 8 | 0·13 |
| 37 | Bársi do. ... ... ... | 20,569 | 1,327 | 1 | P. 424<br>R. 1 | 370<br>... | 794<br>1 | 795 | 794 | 488 | 216 | 715 | 1 | 1 | 90·05 | 100·00 | 34·81 | 572 | 27·81 | 8 | 0·39 |
| 38 | Pandharpur Town ... ... | 19,954 | 1,976 | 1 | P. 285<br>R. 3 | 304<br>... | 589<br>3 | 592 | 589 | 439 | 133 | 573 | 3 | 2 | 97·28 | 66·67 | 28·82 | 712 | 35·68 | ... | ... |
| 39 | In the 7 Rural Circles. Local Fund . | 648,251 | 143 | 11 | P. 12,196<br>R. 81 | 11,561<br>4 | 23,757<br>85 | 2,168 | 23,759 | 17,902 | 4,130 | 22,085 | 85 | 47 | 92·96 | 55·29 | 34·14 | 21,533 | 33·22 | 60 | 0·09 |
| | In the 7 Rural Circles. Municipal ... | | | ... | P. 935<br>R. 2 | 949<br>... | 1,884<br>2 | 1,886 | 1,886 | 1,495 | 236 | 1,749 | 2 | 2 | 92·83 | 100·00 | 2·70 | | | | |
| | Total ... | 750,689 | 164 | 14 | P. 15,132<br>R. 188 | 14,438<br>12 | 29,570<br>200 | 2,126 | 29,574 | 21,906 | 5,332 | 27,364 | 200 | 105 | 92·54 | 52·50 | 36·59 | 24,988 | 33·29 | 76 | 0·10 |
| | SA'TA'RA COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 40 | Karád Town, Local Fund ... | 12,086 | 32,665 | ... | P. 267<br>R. 1 | 256<br>1 | 523<br>2 | 525 | 523 | 351 | 98 | 455 | 2 | 1 | 87·00 | 50·00 | 37·73 | 403 | 33·34 | ... | ... |
| 41 | Wái do. do. ... | 12,438 | 6,219 | ... | P. 164 | 141 | 305 | 305 | 305 | 139 | 150 | 293 | ... | ... | 96·07 | ... | 23·55 | 316 | 25·41 | 1 | 0·08 |
| 42 | Sátára Town ... ... .. | 25,750 | 31,402 | 1 | P. 489<br>R. 553 | 430<br>36 | 919<br>589 | 1,508 | 919 | 586 | 296 | 897 | 589 | 322 | 98·69 | 54·67 | 44·30 | 1,153 | 44·78 | 8 | 0·31 |
| 43 | In the 12 Rural Circles. Local Fund . | 1,175,715 | 244 | 19 | P. 21,586<br>R. 410 | 21,155<br>14 | 42,741<br>424 | 2,272 | 42,756 | 34,634 | 5,196 | 39,955 | 424 | 242 | 93·48 | 57·08 | 34·19 | 38,375 | 32·64 | 58 | 0·05 |
| | In the 12 Rural Circles. Municipal ... | | | ... | P. 47 | 66 | 113 | 113 | 113 | 92 | 18 | 111 | ... | ... | 98·23 | ... | 0·01 | | | | |
| | Total ... | 12,25,989 | 254 | 20 | P. 22,553<br>R. 964 | 22,048<br>51 | 44,601<br>1,015 | 2,281 | 44,616 | 35,802 | 5,758 | 41,711 | 1,015 | 565 | 93·52 | 55·67 | 34·48 | 40,247 | 32·83 | 67 | 0·05 |

## Statement No I., showing Particulars of Vaccination, &c.—*continued.*

| Number. | Circles and Districts. | Population of Districts according to Census of 1891. | Average Population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. | Primary Vaccination. | | | | Re-vaccination. | | Percentage of Successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number | Ratio per 1,000. |
| | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all Ages. | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | THE CENTRAL REGISTRATION DISTRICT—*continued.* | | | | Males. | Females. | Total. | | | | | | | | | | | | | | |
| | RATNÁGIRI COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 44 | Vengurda Town,.. ... ... | 10,134 | 337,800 | 1 | P. 211<br>R. 6 | 182<br>2 | 393<br>8 | 401 | 393 | 298 | 53 | 365 | 8 | 3 | 92·38 | 37·50 | 36·31 | 355 | 35·03 | ... | ... |
| 45 | Ratnágiri Town, Local Fund... | 14,303 | 357,575 | ... | P. 273<br>R. 12 | 301<br>8 | 574<br>20 | 594 | 577 | 235 | 311 | 556 | 20 | 14 | 96·86 | 70·00 | 39·85 | 369 | 25·79 | 1 | 0·07 |
| 46 | In the 8 Rural Circles, Local Fund. | 1,081,489 | 276 | 15 | P. 16,550<br>R. 424 | 15,608<br>110 | 32,158<br>534 | 2,179 | 32,206 | 23,572 | 6,938 | 30,768 | 534 | 256 | 95·68 | 48·00 | 28·65 | 32,200 | 29·77 | 169 | 0·15 |
| | Total ... | 1,105,926 | 282 | 16 | P. 17,034<br>R. 442 | 16,091<br>120 | 33,125<br>562 | 2,105 | 33,176 | 24,105 | 7,302 | 31,689 | 562 | 273 | 95·61 | 48·58 | 28·90 | 32,924 | 29·77 | 170 | 0·15 |
| | NATIVE STATES— | | | | | | | | | | | | | | | | | | | | |
| 47 | Akalkot ... ... ... ... | 75,774 | 152 | 1 | P. 1,039<br>R. 17 | 969<br>1 | 2,008<br>18 | 2,026 | 2,008 | 1,487 | 383 | 1,876 | 18 | 11 | 93·43 | 61·11 | 24·90 | 2,008 | 26·50 | ... | ... |
| | SÁTÁRA JÁGHIRS— | | | | | | | | | | | | | | | | | | | | |
| 48 | Pant Pratinidhi ... ... | 65,146 | 146 | 2 | P. 1,204<br>R. 55 | 1,123<br>2 | 2,327<br>57 | 1,192 | 2,328 | 1,471 | 598 | 2,080 | 57 | 42 | 89·39 | 73·68 | 32·57 | 1,916 | 29·41 | ... | ... |
| 49 | Do. Sachiv ... ... ... | 155,669 | 105 | 3 | P. 2,835 | 2,916 | 5,751 | 1,917 | 5,751 | 3,634 | 1,713 | 5,374 | ... | ... | 93·44 | ... | 34·52 | 4,577 | 29·40 | ... | ... |
| 50 | Phaltan ... ... ... ... | 66,383 | 167 | 1 | P. 1,078<br>R. 5 | 1,023<br>... | 2,101<br>5 | 2,106 | 2,101 | 1,596 | 445 | 2,053 | 5 | 5 | 97·72 | 100·00 | 31·00 | 1,999 | 30·11 | ... | ... |
| | Total ... | 287,198 | 123 | 6 | P. 5,117<br>R. 60 | 5,062<br>2 | 10,179<br>62 | 1,707 | 10,180 | 6,701 | 2,756 | 9,507 | 62 | 47 | 93·40 | 75·81 | 33·27 | 8,492 | 29·57 | ... | ... |
| 51 | SÁVANTVÁDI... ... ... ... | 192,948 | 208 | 5 | P. 3,075<br>R. 197 | 3,057<br>202 | 6,132<br>399 | 1,306 | 6,141 | 4,394 | 1,436 | 5,871 | 399 | 216 | 95·74 | 54·14 | 31·55 | 5,494 | 28·47 | ... | ... |
| | TOTALS BY ESTABLISHMENTS IN CENTRAL REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | | |
| | Cantonment ... ... ... | 46,045 | 4,978 | 2 | P. 1,749<br>R. 881 | 952<br>203 | 2,701<br>1,084 | 1,892 | 2,701 | 1,624 | 796 | 2,550 | 1,084 | 620 | 94·41 | 57·20 | 68·85 | 2,105 | 45·72 | 5 | 0·11 |
| | Municipal ... ... ... ... | 297,325 | 7,975 | 8 | P. 6,708<br>R. 2,391 | 6,343<br>286 | 13,051<br>2,677 | 1,966 | 13,053 | 8,533 | 3,359 | 12,260 | 2,677 | 1,267 | 93·94 | 47·33 | 45·50 | 11,792 | 39·66 | 123 | 0·41 |
| | Local Fund... ... ... ... | 4,695,789 | 189 | 74 | P. 81,746<br>R. 1,295 | 79,446<br>171 | 161,192<br>1,466 | 2,198 | 161,300 | 121,172 | 28,761 | 150,548 | 1,466 | 791 | 93·40 | 53·96 | 32·23 | 145,759 | 31·04 | 531 | 0·11 |
| | Native States ... ... ... | 555,920 | 148 | 12 | P. 9,231<br>R. 274 | 9,088<br>205 | 18,319<br>479 | 1,566 | 18,329 | 12,582 | 4,575 | 17,254 | 479 | 274 | 94·19 | 57·20 | 31·53 | 15,994 | 28·77 | ... | ... |
| | Grand Total ... | 5,595,079 | 223 | 96 | P. 99,434<br>R. 4,841 | 95,829<br>865 | 195,263<br>5,706 | 2,093 | 195,383 | 143,911 | 37,491 | 182,612 | 5,706 | 2,952 | 93·52 | 51·74 | 33·17 | 175,650 | 31·39 | 659 | 0·12 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | THE SOUTHERN REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | |
| | BELGAUM COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 52 | Gokák Town ... ... ... | 12,106 | 31,041 | 1 | P. 207<br>R. 150 | 223<br>20 | 430<br>170 | 1,547 | 430 | 287 | 135 | 428 | 170 | 135 | 99·53 | 79·41 | 46·51 | 412 | 34·03 | 1 | 0·08 |
| 53 | Athni do. ... ... ... | 10,416 | 11,322 | | P. 388<br>R. 147 | 390<br>22 | 778<br>169 | | 778 | 546 | 199 | 759 | 169 | 134 | 97·43 | 79·23 | 85·73 | 464 | 44·55 | 2 | 0·19 |
| 54 | Belgaum do. ... ... ... | 28,423 | 63,162 | 1 | P. 1,018<br>R. 239 | 869<br>3 | 1,887<br>242 | 2,340 | 1,887 | 1,123 | 517 | 1,841 | 242 | 235 | 96·50 | 97·11 | 73·05 | 1,440 | 50·66 | 16 | 0·56 |
| 55 | Do. Cantonment ... ... | 12,314 | ... | | P. 109<br>R. 21 | 78<br>3 | 187<br>24 | | 187 | 119 | 44 | 182 | 24 | 23 | 97·32 | 95·83 | 16·65 | 182 | 14·78 | ... | ... |
| 56 | In the 7 Rural Circles, Local Fund. | 950,002 | 204 | 17 | P. 15,659<br>R. 2,917 | 15,178<br>546 | 30,837<br>3,463 | 2,018 | 30,949 | 21,542 | 6,957 | 28,940 | 3,463 | 2,016 | 93·85 | 58·29 | 32·59 | 30,161 | 31·75 | 89 | 0·09 |
| | Total ... | 1,013,261 | 218 | 19 | P. 17,381<br>R. 3,474 | 16,738<br>594 | 34,119<br>4,068 | 2,010 | 34,231 | 23,617 | 7,852 | 32,150 | 4,038 | 2,543 | 94·23 | 62·51 | 34·24 | 32,659 | 32·23 | 108 | 0·11 |
| | DHA'RWA'R COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 57 | Dhárwár Town... ... ... | 32,841 | 28,557 | 1 | P. 734<br>R. 417 | 509<br>22 | 1,243<br>439 | 1,682 | 1,243 | 594 | 339 | 1,138 | 439 | 379 | 91·55 | 86·33 | 46·20 | 1,289 | 39·25 | 15 | 0·46 |
| 58 | Hubli do. ... ... ... | 52,595 | 44,585 | 1 | P. 1,068<br>R. 268 | 1,115<br>17 | 2,183<br>285 | 2,468 | 2,184 | 1,245 | 784 | 2,089 | 286 | 194 | 95·69 | 68·07 | 43·41 | 1,228 | 23·33 | 23 | 0·44 |
| 59 | Gadag-Bettigeri Town... ... | 23,899 | 85,354 | 1 | P. 909<br>R. 254 | 779<br>14 | 1,688<br>268 | 1,956 | 1,692 | 1,163 | 367 | 1,645 | 268 | 199 | 97·45 | 74·29 | 77·16 | 1,335 | 55·86 | 5 | 0·21 |
| 60 | Ránebennur Town, Local Fund. | 13,761 | 37,192 | 1 | P. 239<br>R. 14 | 184<br>... | 423<br>14 | 437 | 423 | 269 | 136 | 407 | 14 | 8 | 96·22 | 57·14 | 30·16 | 469 | 34·08 | 10 | 0·72 |
| 61 | In the 14 Rural Circles, Local Fund. | 928,218 | 205 | 18 | P. 14,127<br>R. 2,325 | 13,768<br>106 | 27,895<br>2,431 | 1,685 | 27,957 | 18,017 | 6,743 | 25,316 | 2,431 | 1,463 | 90·75 | 60·18 | 28·84 | 26,819 | 28·89 | 203 | 0·22 |
| | Total ... | 1,051,314 | 232 | 22 | P. 17,077<br>R. 3,278 | 16,355<br>159 | 33,432<br>3,437 | 1,676 | 33,499 | 21,288 | 8,369 | 30,595 | 3,438 | 2,243 | 91·51 | 65·26 | 31·24 | 31,140 | 29·62 | 256 | 0·24 |
| | BIJA'PUR COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 62 | Bijápur Town ... ... ... | 16,759 | 7,868 | 1 | P. 362<br>R. 162 | 342<br>13 | 704<br>175 | 879 | 721 | 406 | 251 | 674 | 175 | 110 | 95·74 | 62·86 | 47·04 | 936 | 55·85 | 8 | 0·48 |
| 63 | Bágalkot do. ... ... ... | 18,034 | 169 | 1 | P. 1,037<br>R. 179 | 940<br>13 | 1,977<br>192 | 2,169 | 1,977 | 1,393 | 496 | 1,909 | 192 | 77 | 96·56 | 42·10 | 110·13 | 1,431 | 79·36 | ... | ... |
| 64 | Kaládgi do. Local Fund ... | 4,622 | 8,517 | ... | ..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 86 | 18·61 | 1 | 0·22 |
| 65 | In the 8 Rural Circles, Local Fund. | 756,924 | 132 | 11 | P. 12,959<br>R. 3,255 | 12,651<br>447 | 25,610<br>3,702 | 2,665 | 25,651 | 17,682 | 6,136 | 24,063 | 3,702 | 2,490 | 93·96 | 67·26 | 33·63 | 26,171 | 34·57 | 139 | 0·18 |
| | Total ... | 796,339 | 136 | 13 | P. 14,358<br>R. 3,596 | 13,933<br>473 | 28,291<br>4,069 | 2,489 | 28,349 | 19,481 | 6,883 | 26,646 | 4,069 | 2,677 | 94·19 | 65·79 | 36·82 | 28,624 | 35·94 | 148 | 0·19 |
| | KA'NARA COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 66 | Kárwár Town ... ... ... | 14,579 | 1,239 | 1 | P. 335<br>R. 103 | 259<br>12 | 594<br>115 | 709 | 594 | 179 | 255 | 549 | 115 | 87 | 92·42 | 75·65 | 43·62 | 535 | 36·70 | 5 | 0·34 |
| 67 | Kumpta do. Local Fund ... | 10,714 | 1,458 | 1 | P. 247<br>R. 68 | 227<br>30 | 474<br>98 | 572 | 474 | 182 | 152 | 422 | 98 | 59 | 89·03 | 60·20 | 44·89 | 335 | 31·27 | 2 | 0·19 |
| 68 | In the 11 Rural Circles, Local Fund. | 421,058 | 108 | 14 | P. 7,293<br>R. 1,797 | 6,929<br>997 | 14,222<br>2,794 | 1,215 | 14,244 | 5,130 | 5,835 | 12,843 | 2,794 | 1,899 | 90·30 | 67·97 | 35·01 | 12,732 | 30·24 | 112 | 0·27 |
| | Total ... | 446,351 | 114 | 16 | P. 7,875<br>R. 1,968 | 7,415<br>1,039 | 15,290<br>3,007 | 1,144 | 15,312 | 5,491 | 6,242 | 13,814 | 3,007 | 2,045 | 90·46 | 68·08 | 35·53 | 13,602 | 30·47 | 119 | 0·27 |

## Statement No. I., showing Particulars of Vaccination, &c.—*continued.*

| Number. | Circles and Districts. | Population of Districts according to Census of 1891. | Average Population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | Average Number of Persons vaccinated by each Vaccinator. | Primary Vaccination. | | | | Re-vaccination. | | Percentage of Successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Total. | Successful. | | | Total. | Successful | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all Ages. | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | THE SOUTHERN REGISTRATION DISTRICT—*continued.* | | | | Males. Females. Total. | | | | | | | | | | | | | | |
| | Southern Marátha Jághirs— | | | | | | | | | | | | | | | | | | |
| 69 | Sángli ... ... ... ... | 238,945 | 221 | 7 | P. 3,226 3,080 6,306<br>R. 933 322 1,255 | 1,080 | 6,308 | 5,019 | 825 | 5,872 | 1,255 | 780 | 93·12 | 62·15 | 27·84 | 6,182 | 25·87 | ... | ... |
| 70 | Jamkhandi ... ... ... | 102,162 | 184 | 2 | P. 1,939 1,853 3,792<br>R. 159 55 214 | 2,003 | 3,792 | 2,692 | 1,023 | 3,748 | 214 | 176 | 98·71 | 82·24 | 38·40 | 3,526 | 34·51 | ... | ... |
| 71 | Miraj (Senior) ... ... ... | 88,343 | 261 | 2 | P. 1,466 1,474 2,940<br>R. 123 21 144 | 1,542 | 2,972 | 2,007 | 813 | 2,830 | 144 | 139 | 96·26 | 96·53 | 33·60 | 2,818 | 31·90 | ... | ... |
| 72 | Do. (Junior) ... ... ... | 35,487 | 158 | 1 | P. 480 497 977<br>R. 139 14 153 | 1,130 | 977 | 584 | 351 | 961 | 153 | 134 | 98·46 | 87·58 | 30·86 | 822 | 23·16 | ... | ... |
| 73 | Kurundvád (Elder) ... ... | 43,809 | 252 | 1 | P. 486 468 954<br>R. 50 9 59 | 1,013 | 954 | 443 | 441 | 884 | 59 | 53 | 92·66 | 89·63 | 21·39 | 1,169 | 26·68 | ... | ... |
| 74 | Do. (Younger)... ... | 32,528 | 243 | 1 | P. 550 506 1,056<br>R. 70 2 72 | 1,128 | 1,056 | 591 | 335 | 930 | 72 | 62 | 88·07 | 86·11 | 30·50 | 886 | 27·24 | ... | ... |
| 75 | Mudhol ... ... ... ... | 61,815 | 171 | 1 | P. 959 946 1,905<br>R. 304 166 470 | 2,375 | 1,929 | 1,493 | 354 | 1,852 | 470 | 335 | 97·22 | 71·28 | 35·38 | 2,620 | 42·38 | ... | ... |
| 76 | Rámdurg ... ... ... | 36,181 | 214 | 1 | P. 713 672 1,385<br>R. 272 82 354 | 1,739 | 1,427 | 860 | 386 | 1,268 | 354 | 119 | 91·55 | 33·62 | 38·34 | 1,268 | 35·05 | ... | ... |
| 77 | Jath ... ... ... ... | 79,786 | 82 | 2 | P. 1,514 1,401 2,915<br>R. 916 335 1,251 | 2,083 | 2,915 | 1,762 | 759 | 2,533 | 1,251 | 861 | 86·90 | 68·82 | 42·54 | 3,057 | 38·31 | ... | ... |
| | Total ... | 719,056 | 179 | 18 | P. 11,333 10,897 22,230<br>R. 2,966 1,006 3,972 | 1,456 | 22,330 | 15,451 | 5,287 | 20,878 | 3,972 | 2,659 | 93·92 | 66·94 | 32·73 | 22,348 | 31·08 | ... | ... |
| | Under the Dhárwár Agency— | | | | | | | | | | | | | | | | | | |
| 78 | Savanur State ... ... .. | 16,976 | 242 | 1 | P. 306 286 592<br>R. 101 51 152 | 744 | 592 | 421 | 116 | 553 | 152 | 111 | 93·41 | 73·03 | 39·11 | 642 | 37·82 | ... | ... |
| 79 | Kolhápur State... ... ... | 913,131 | 320 | 13 | P. 13,768 13,444 27,212<br>R. 5,348 1,625 6,973 | 2,630 | 27,276 | 17,912 | 8,110 | 26,250 | 6,986 | 4,595 | 96·46 | 65·90 | 33·78 | 29,346 | 32·14 | ... | ... |
| | TOTALS BY ESTABLISHMENTS IN SOUTHERN REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | |
| | Municipal ... ... ... | 221,966 | 1,772 | 8 | P. 6,167 5,504 11,671<br>R. 1,940 139 2,079 | 1,719 | 11,693 | 7,055 | 3,387 | 11,214 | 2,080 | 1,573 | 96·08 | 75·66 | 57·60 | 9,252 | 41·68 | 76 | 0·34 |
| | Local Fund ... ... ... | 3,085,299 | 164 | 62 | P. 50,524 48,937 99,461<br>R. 10,376 2,126 12,502 | 1,806 | 99,698 | 62,822 | 25,959 | 91,991 | 12,502 | 7,935 | 92 49 | 63·47 | 32·39 | 96,773 | 31·37 | 555 | 0·18 |
| | Native State ... ... .. | 1,649,163 | 238 | 32 | P. 25,407 24,627 50,034<br>R. 8,415 2,682 11,097 | 1,910 | 50,198 | 33,784 | 13,513 | 47,681 | 11,110 | 7,365 | 95·30 | 66·37 | 33·38 | 52,336 | 31·73 | ... | ... |
| | Grand Total ... | 4,956,428 | 191 | 102 | P. 82,098 79,068 161,166<br>R. 20,731 4,947 25,678 | 1,832 | 161,589 | 103,661 | 42,859 | 150,886 | 25,692 | 16,873 | 93·62 | 65·71 | 33·85 | 158,361 | 31·95 | 631 | 0·13 |
| | THE GUJARA'T REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | |
| | Surat Collectorate— | | | | | | | | | | | | | | | | | | |
| 80 | Bulsár Town ... ... ... | 14,779 | 5,912 | ... | ..... ... ... | ... | *Vide* | Statement No. | | III. | ... | ... | ... | ... | ... | ... | ... | 1 | 0·07 |
| 81 | Surat do. ... ... ... | 108,697 | 36,232 | 2 | P. 1,633 1,516 3,149<br>R. 199 7 206 | 1,677 | 3,151 | 2,448 | 665 | 3,126 | 206 | 53 | 99·27 | 25·73 | 29·25 | 3,312 | 30·47 | 4 | 0·04 |
| 82 | In the 8 Rural Circles, Local Fund. | 526,513 | 318 | 9 | P. 8,057 8,165 16,222<br>R. 61 31 92 | 1,813 | 16,257 | 12,858 | 2,930 | 15,868 | 92 | 57 | 97·82 | 61·96 | 30·25 | 16,171 | 30·71 | 72 | 0·14 |
| | Total ... | 649,989 | 31 | 11 | P. 9,690 9,681 19,371<br>R. 260 38 298 | 1,788 | 19,408 | 15,306 | 3,595 | 18,994 | 298 | 110 | 98·05 | 36·91 | 29·39 | 19,483 | 29·97 | 77 | 0·12 |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BROACH COLLECTORATE — | | | | | | | | | | | | | | | | | | | | |
| 83 | Broach Town ... ... ... | 40,168 | 23,910 | 1 | P. 541<br>R. 142 | 526<br>... | 1,067<br>142 | 1,209 | 1,067 | 899 | 155 | 1,056 | 142 | 105 | 98·97 | 73·94 | 28·90 | 1,271 | 31·64 | 20 | 0·50 |
| 84 | Jambusar Town, Local Fund... | 12,072 | 22,356 | ... | P. 166<br>R. 3 | 182<br>1 | 348<br>4 | 352 | 350 | 285 | 58 | 343 | 4 | 3 | 98·56 | 75·00 | 28·66 | 387 | 32·06 | 3 | 0·25 |
| 85 | In the 6 Rural Circles, Local Fund ... ... ... ... | 289,250 | 199 | 5 | P. 4,123<br>R. 143 | 4,017<br>47 | 8,140<br>190 | 1,666 | 8,161 | 6,340 | 1,577 | 7,937 | 190 | 91 | 97·51 | 47·89 | 27·75 | 9,134 | 31·58 | 50 | 0·17 |
| | Total ... | 341,490 | 235 | 6 | P. 4,830<br>R. 288 | 4,725<br>48 | 9,555<br>336 | 1,648 | 9,578 | 7,524 | 1,790 | 9,336 | 336 | 199 | 97·71 | 59·23 | 27·92 | 10,792 | 31·60 | 73 | 0·21 |
| | KAIRA COLLECTORATE — | | | | | | | | | | | | | | | | | | | | |
| 86 | Kapadvanj Town, Local Fund. | 14,805 | 64,370 | ... | P. 253 | 228 | 481 | 481 | 484 | 295 | 161 | 463 | ... | ... | 96·26 | ... | 31·27 | 90 | 6·08 | 5 | 0·34 |
| 87 | Nadiád do. ... ... | 29,048 | 88,024 | 1 | P. 574<br>R. 15 | 458<br>1 | 1,032<br>16 | 1,048 | 1,032 | 873 | 121 | 994 | 16 | 12 | 96·32 | 75·00 | 34·63 | 993 | 34·18 | 2 | 0·07 |
| 88 | Broach Town, Local Fund ... | 12,159 | 63,995 | ... | P. 209<br>R. 4 | 196<br>... | 405<br>4 | 409 | 407 | 355 | 41 | 397 | 4 | 3 | 98·02 | 75·00 | 32·89 | 458 | 37·67 | 1 | 0·08 |
| 89 | Kaira do. do. ... | 19,101 | 36,075 | ... | P. 132<br>R. 2 | 122<br>... | 254<br>2 | 256 | 254 | 195 | 40 | 235 | 2 | 2 | 92·52 | 100·00 | 23·46 | 288 | 28·51 | ... | ... |
| 90 | In the 7 Rural Circles, Local Fund ... ... ... ... | 805,476 | 501 | 10 | P. 11,964<br>R. 101 | 10,066<br>21 | 22,030<br>122 | 2,215 | 22,065 | 18,176 | 3,353 | 21,559 | 122 | 82 | 97·86 | 67·21 | 26·87 | 23,090 | 28·67 | 20 | 0·02 |
| | Total ... | 871,589 | 542 | 11 | P. 13,132<br>R. 122 | 11,070<br>22 | 24,202<br>144 | 2,213 | 24,242 | 19,894 | 3,716 | 23,648 | 144 | 99 | 97·71 | 68·75 | 27·25 | 24,919 | 28·59 | 28 | 0·03 |
| | PANCH MAHÁLS— | | | | | | | | | | | | | | | | | | | | |
| 91 | Godhra Town Local Fund ... | 14,691 | 86,418 | . | P. 280<br>R. 13 | 256<br>1 | 536<br>14 | 550 | 536 | 420 | 83 | 536 | 14 | 14 | 100·00 | 100·00 | 37·44 | 604 | 41·11 | 8 | 0·54 |
| 92 | Dohad do. do. ... | 12,935 | 76,088 | ... | P. 199<br>R. 1 | 181<br>... | 380<br>1 | 381 | 380 | 246 | 102 | 350 | 1 | ... | 92·11 | ... | 27·06 | 312 | 24·12 | 1 | 0·08 |
| 93 | In the 5 Rural Circles, Local Fund ... ... ... ... | 285,791 | 177 | 6 | P. 5,664<br>R. 75 | 5,325<br>11 | 10,989<br>86 | 1,846 | 11,016 | 7,933 | 2,698 | 10,731 | 86 | 61 | 97·65 | 70·93 | 37·76 | 8,570 | 29·99 | 7 | 0·02 |
| | Total ... | 313,417 | 194 | 6 | P. 6,143<br>R. 89 | 5,762<br>12 | 11,905<br>101 | 2,001 | 11,932 | 8,599 | 2,883 | 11,617 | 101 | 75 | 97·58 | 74·26 | 37·30 | 9,486 | 30·27 | 16 | 0·05 |
| | AHMEDABAD COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 94 | Dholka Town ... ... ... | 16,494 | 21,992 | 1 | P. 297 | 278 | 575 | 575 | 575 | 544 | 23 | 567 | ... | ... | 98·61 | ... | 34·38 | 678 | 41·11 | ... | ... |
| 95 | Ahmedabad Town ... ... | 144,451 | 65,660 | 2 | P. 2,432<br>R. 39 | 2,340<br>8 | 4,772<br>47 | 2,409 | 4,782 | 4,161 | 539 | 4,706 | 47 | 32 | 98·62 | 68·09 | 32·80 | 4,741 | 32·82 | 8 | 0·06 |
| 96 | Ahmedabad Cantonment ... | 3,961 | ... | ... | P. 26<br>R. 1 | 24<br>... | 50<br>1 | 51 | 50 | 38 | 12 | 50 | 1 | 1 | 100·00 | 100·00 | 12·88 | 52 | 13·13 | ... | ... |
| 97 | Gogha Town, Local Fund ... | 6,638 | 8,851 | ... | P. 130<br>R. 2 | 124<br>... | 254<br>2 | 256 | 254 | 196 | 50 | 248 | 2 | 1 | 97·64 | 50·00 | 37·51 | 255 | 38·42 | 2 | 0·30 |
| 98 | Viramgám Town do. ... | 23,209 | 35,048 | ... | P. 288 | 305 | 593 | 593 | 593 | 542 | 47 | 589 | ... | ... | 99·33 | ... | 25·38 | 649 | 27·96 | ... | ... |
| 99 | In the 7 Rural Circles, Local Fund ... ... ... ... | 726,959 | 190 | 12 | P. 11,075<br>R. 86 | 10,518<br>20 | 21,593<br>106 | 1,808 | 21,672 | 18,765 | 2,334 | 21,150 | 106 | 85 | 97·95 | 80·19 | 29·21 | 22,226 | 30·57 | 27 | 0·04 |
| | Total ... | 921,712 | 241 | 15 | P. 14,248<br>R. 128 | 13,589<br>28 | 27,837<br>156 | 1,866 | 27,926 | 24,246 | 3,005 | 27,310 | 156 | 119 | 98·12 | 76·28 | 29·76 | 28,601 | 31·03 | 37 | 0·04 |
| | NATIVE STATES— | | | | | | | | | | | | | | | | | | | | |
| 100 | Rewa Kántha ... ... ... | 726,056 | 150 | 16 | P. 12,979<br>R. 164 | 12,708<br>37 | 25,687<br>201 | 1,618 | 25,791 | 14,454 | 9,451 | 24,923 | 201 | 122 | 97·03 | 60·70 | 34·49 | 20,666 | 28·46 | ... | ... |
| 101 | Mahi Kántha ... ... ... | 581,568 | 165 | 8 | P. 7,119<br>R. 44 | 6,647<br>11 | 13,766<br>55 | 1,728 | 13,788 | 10,631 | 2,803 | 13,510 | 55 | 40 | 98·14 | 72·73 | 23·30 | 14,460 | 24·86 | ... | ... |
| 102 | Cambay ... ... ... ... | 89,722 | 256 | 1 | P. 1,293<br>R. 1 | 1,172<br>1 | 2,465<br>2 | 2,467 | 2,465 | 1,931 | 486 | 2,439 | 2 | 1 | 98·95 | 50·00 | 25·19 | 2,116 | 23·58 | ... | ... |
| 103 | Surat Agency . Dharampor... | 120,498 | 152 | 3 | P. 3,108<br>R. 20 | 3,037<br>4 | 6,145<br>24 | 2,056 | 6,145 | 3,720 | 2,194 | 6,070 | 24 | 16 | 98·78 | 66·67 | 50·51 | 4,928 | 40·90 | ... | ... |
| 104 | Surat Agency . Bánsda ... | 41,373 | 192 | 1 | P. 849<br>R. 2 | 824<br>1 | 1,673<br>3 | 1,676 | 1,674 | 1,275 | 358 | 1,656 | 3 | 2 | 98·98 | 66·67 | 40·07 | 1,445 | 34·93 | ... | ... |
| 105 | Surat Agency . Sachin, Local Fund ... | 19,337 | 460 | ... | P. 259<br>R. 2 | 260<br>... | 519<br>2 | 521 | 520 | 344 | 156 | 503 | 2 | 2 | 96·92 | 100·00 | 26·12 | 505 | 26·12 | ... | ... |
| 106 | Jámbughoda, Local Fund ... | 7,450 | 52 | ... | P. 44 | 35 | 79 | 79 | 79 | 46 | 32 | 78 | ... | ... | 98·73 | ... | 10·47 | 279 | 37·45 | ... | ... |

## Statement No. I., showing Particulars of Vaccination, &c.—*continued.*

| Number. | Circles and Districts. | Population of Districts according to Census of 1891. | Average Population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator | Primary Vaccination. | | | | Re-vaccination. | | Percentage of Successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all Ages. | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | TOTALS BY ESTABLISHMENTS IN GUJARÁT REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | | |
| | Municipal ... ... ... | 353,637 | 33,809 | 7 | P. 5,477<br>R. 395 | 5,118<br>16 | 10,595<br>411 | 1,572 | 10,607 | 8,925 | 1,503 | 10,449 | 411 | 202 | 98·62 | 49·15 | 30·12 | 10,994 | 31·09 | 37 | 0·10 |
| | Local Fund ... ... ... | 2,767,386 | 268 | 42 | P. 42,843<br>R. 493 | 39,980<br>132 | 82,823<br>625 | 1,987 | 83,028 | 66,996 | 13,662 | 80,987 | 625 | 401 | 97·78 | 64·16 | 29 41 | 83,039 | 30·01 | 194 | 0·07 |
| | Native States ... ... ... | 1,559,217 | 160 | 29 | P. 25,348<br>R. 231 | 24,388<br>54 | 49,736<br>285 | 1,725 | 49,863 | 32,011 | 15,292 | 48,598 | 285 | 181 | 97·71 | 63·51 | 31·28 | 43,615 | 27·97 | ... | ... |
| | Cantonment ... ... ... | 3,961 | ... | ... | P. 26<br>R. 1 | 24<br>... | 50<br>1 | 51 | 50 | 38 | 12 | 50 | 1 | 1 | 100·00 | 100·00 | 12·88 | 32 | 8·08 | ... | ... |
| | Grand Total ... | 4,684,201 | 233 | 78 | P. 73,694<br>R. 1,120 | 69,510<br>202 | 143,204<br>1,322 | 1,853 | 143,548 | 107,970 | 30,469 | 140,084 | 1,322 | 785 | 97·82 | 59·38 | 30·07 | 137,680 | 29·39 | 231 | 0·05 |
| | THE SIND REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | | |
| | KARÁCHI COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 107 | Karáchi Town ... ... ... | 98,195 | 12,819 | 2 | P. 1,812<br>R. 475 | 1,748<br>37 | 3,560<br>512 | 2,036 | 3,668 | 2,967 | 378 | 3,476 | 516 | 363 | 97·64 | 70·90 | 39·10 | 4,643 | 47·28 | 26 | 0·26 |
| 108 | Tátta do. ... ... ... | 8,969 | ... | 1 | P. 196<br>R. 24 | 164<br>53 | 360<br>77 | 437 | 360 | 149 | 119 | 287 | 77 | 24 | 79·72 | 31·17 | 34·67 | 160 | 17·84 | ... | ... |
| 109 | In the 4 Rural Circles, Local Fund ... ... ... ... | 457,716 | 32 | 14 | P. 5,954<br>R. 1,782 | 5,223<br>1,041 | 11,177<br>2,823 | 1,000 | 11,237 | 5,480 | 3,906 | 9,699 | 2,824 | 1,299 | 86·78 | 46·01 | 24·03 | 11,925 | 26·05 | 216 | 0·47 |
| | Total ... | 564,880 | 40 | 17 | P. 7,962<br>R. 2,281 | 7,135<br>1,131 | 15,097<br>3,412 | 1,089 | 15,265 | 8,596 | 4,403 | 13,462 | 3,417 | 1,686 | 89·17 | 49·41 | 26·82 | 16,728 | 29·61 | 242 | 0·42 |
| | HYDERABAD COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 110 | Hyderabad Town ... ... | 54,569 | ... | 1 | P. 804<br>R. 406 | 664<br>1 | 1,468<br>407 | 1,875 | 1,468 | 1,237 | 202 | 1,461 | 407 | 242 | 99·52 | 59·46 | 31·21 | 1,744 | 31·96 | 111 | 2·03 |
| 111 | In the 13 Rural Circles, Local Fund ... ... ... ... | 864,077 | 96 | 13 | P. 11,185<br>R. 1,759 | 9,439<br>893 | 20,624<br>2,652 | 1,790 | 20,650 | 13,126 | 5,630 | 18,950 | 2,652 | 1,707 | 91·88 | 64 37 | 23·91 | 21,892 | 25·34 | 151 | 0·17 |
| | Total ... | 918,646 | 102 | 14 | P. 11,989<br>R. 2,165 | 10,103<br>894 | 22,092<br>3,059 | 1,796 | 22,118 | 14,363 | 5,832 | 20,411 | 3,059 | 1,949 | 92·39 | 63·71 | 24·34 | 23,636 | 25·73 | 262 | 0·29 |
| | THAR AND PÁRKAR COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 112 | Umarkot Town, Local Fund ... | 3,702 | ... | ... | P. 55<br>R. 11 | 56<br>35 | 111<br>46 | 157 | 111 | 60 | 27 | 87 | 46 | 23 | 78·38 | 50·00 | 29·71 | 175 | 47·27 | 3 | 0·81 |
| 113 | In the 7 Rural Circles... ... | 294,501 | ... | 7 | P. 4,497<br>R. 705 | 3,718<br>1,492 | 8,215<br>2,197 | 1,487 | 8,220 | 4,119 | 3,483 | 7,914 | 2,197 | 1,505 | 96·34 | 68·50 | 31·98 | 10,430 | 35·42 | 28 | 0·09 |
| | Total ... | 298,203 | 23 | 7 | P. 4,552<br>R. 716 | 3,774<br>1,527 | 8,326<br>2,243 | 1,510 | 8,331 | 4,179 | 3,510 | 8,001 | 2,243 | 1,528 | 96·10 | 68·12 | 31·95 | 10,605 | 35·56 | 31 | 0·10 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SHIKÁRPUR COLLECTORATE—** | | | | | | | | | | | | | | | | | | | |
| 114 | Shikárpur Town ... ... | 42,004 | 4,421 | 1 | P. 686<br>R. 188 | 550<br>3 | 1,236<br>191 | 1,427 | 1,238 | 914 | 152 | 1,087 | 191 | 112 | 87·95 | 58·64 | 28·54 | 1,480 | 35·23 | 2 | 0·05 |
| 115 | Sukkur do. ... ... | 29,302 | ... | 2 | P. 994<br>R. 12 | 743<br>483 | 1,737<br>495 | 1,116 | 1,737 | 1,184 | 281 | 1,472 | 495 | 362 | 84·74 | 73·13 | 62·59 | 1,993 | 68·02 | 4 | 0·14 |
| 116 | Lárkhána do. ... ... | 12,019 | ... | 1 | P. 299<br>R. 236 | 236<br>25 | 535<br>261 | 796 | 535 | 377 | 47 | 449 | 261 | 157 | 83·93 | 60·15 | 50·42 | 468 | 38·94 | 1 | 0·08 |
| 117 | Rohri do. ... ... | 8,786 | ... | 1 | P. 278<br>R. 149 | 164<br>35 | 442<br>184 | 626 | 442 | 332 | 29 | 382 | 184 | 108 | 86·43 | 58·70 | 55·77 | 353 | 40·18 | ... | ... |
| 118 | In the 14 Rural Circles, Local Fund ... ... ... ... | 823,386 | 89 | 16 | P. 13,792<br>R. 1,876 | 12,578<br>3,288 | 26,370<br>5,164 | 1,971 | 26,418 | 21,043 | 3,265 | 24,451 | 5,164 | 2,443 | 92·72 | 47·31 | 32·66 | 28,016 | 34·02 | 109 | 0·13 |
| | Total ... | 915,497 | 99 | 21 | P. 16,049<br>R. 2,461 | 14,271<br>3,834 | 30,320<br>6,295 | 1,744 | 30,370 | 23,850 | 3,774 | 27,841 | 6,295 | 3,182 | 91·82 | 50·55 | 33·89 | 32,310 | 35·29 | 116 | 0·13 |
| | **UPPER SIND FRONTIER—** | | | | | | | | | | | | | | | | | | | |
| 119 | Jacobabad Town and Cantonment, Local Fund ... ... | 12,396 | ... | ... | P. 6 | 1 | 7 | 7 | 7 | 5 | 2 | 7 | ... | ... | 100·00 | ... | 0·56 | 204 | 16·46 | ... | ... |
| 120 | In the 4 Rural Circles, Local Fund ... ... ... ... | 162,152 | ... | 4 | P. 2,545<br>R. 416 | 2,325<br>481 | 4,870<br>897 | 1,442 | 4,904 | 3,392 | 1,099 | 4,532 | 897 | 448 | 93·06 | 49·94 | 30·71 | 5,814 | 35·85 | 13 | 0·08 |
| | Total ... | 174,548 | 61 | 4 | P. 2,551<br>R. 416 | 2,326<br>481 | 4,877<br>897 | 1,443 | 4,911 | 3,397 | 1,101 | 4,539 | 897 | 448 | 93·07 | 49·94 | 28·57 | 6,018 | 34·47 | 13 | 0·07 |
| | **NATIVE STATE—** | | | | | | | | | | | | | | | | | | | |
| 121 | Khairpur State... ... ... | 131,937 | 22 | 3 | P. 1,595<br>R. 4 | 1,289<br>... | 2,884<br>4 | 963 | 2,884 | 1,934 | 824 | 2,801 | 4 | 2 | 97·12 | 50·00 | 21·24 | 3,010 | 22·81 | ... | ... |
| | **TOTALS BY ESTABLISHMENTS IN SIND REGISTRATION DISTRICT.** | | | | | | | | | | | | | | | | | | | |
| | Municipal ... ... ... ... | 253,844 | 148 | 9 | P. 5,069<br>R. 1,490 | 4,269<br>637 | 9,338<br>2,127 | 1,274 | 9,448 | 7,160 | 1,208 | 8,614 | 2,131 | 1,368 | 92·25 | 64·32 | 39·32 | 10,841 | 42·71 | 144 | 0·57 |
| | Local Fund ... ... ... ... | 2,617,930 | 55 | 54 | P. 38,034<br>R. 6,549 | 33,340<br>7,230 | 71,374<br>13,779 | 1,577 | 71,547 | 47,225 | 17,412 | 65,640 | 13,780 | 7,425 | 91·97 | 53·89 | 27·91 | 78,456 | 29·97 | 520 | 0·20 |
| | Native State ... ... ... | 131,937 | 22 | 3 | P. 1,595<br>R. 4 | 1,289<br>... | 2,884<br>4 | 962 | 2,884 | 1,934 | 824 | 2,801 | 4 | 2 | 97·12 | 50·00 | 21·24 | 3,010 | 22·81 | ... | ... |
| | Grand Total ... | 3,003,711 | 55 | 66 | P. 44,698<br>R. 8,043 | 38,898<br>7,867 | 83,596<br>15,910 | 1,508 | 83,879 | 56,319 | 19,444 | 77,055 | 15,915 | 8,795 | 92·18 | 55·28 | 28·58 | 92,307 | 30·73 | 664 | 0·22 |
| | **THE BARODA CIRCLE.** | | | | | | | | | | | | | | | | | | | |
| 122 | Baroda States ... ... ... | 2,414,200 | 282 | 36 | P. 38,044<br>R. 1,345 | 34,513<br>227 | 72,557<br>1,572 | 2,059 | 72,718 | 63,324 | 6,320 | 69,874 | 1,572 | 984 | 96·30 | 62·60 | 29·35 | 68,869 | 28·53 | ... | ... |
| | **THE CUTCH CIRCLE.** | | | | | | | | | | | | | | | | | | | |
| 123 | Cutch States ... ... ... | 558,415 | 86 | 17 | P. 9,340<br>R. 49 | 9,088<br>10 | 18,428<br>59 | 1,087 | 18,459 | 13,294 | 4,101 | 17,567 | 59 | 30 | 95·33 | 50·85 | 31·51 | 21,160 | 37·89 | ... | ... |

## Statement No. I., showing Particulars of Vaccination, &c.—*concluded.*

| Number. | Circles and Districts. | Population of Districts according to Census of 1891. | Average Population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. | Primary Vaccination. | | | | Re-vaccination. | | Percentage of Successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all Ages. | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | THE KÁTHIÁWÁR CIRCLE. | | | | Males. | Females. | Total. | | | | | | | | | | | | | | |
| 124 | Káthiáwár ... ... .. ... | 2,752,404 | 132 | 48 | P. 43,565<br>R. 572 | 42,459<br>259 | 86,024<br>831 | 1,869 | 86,293 | 55,886 | 24,509 | 81,194 | 831 | 526 | 94·39 | 63·30 | 29·69 | 79,387 | 28·84 | ... | ... |
| 125 | Pálanpur ... ... ... ... | 645,526 | 83 | 11 | P. 9,322<br>R. 5 | 8,802<br>6 | 18,124<br>11 | 1,649 | 18,127 | 15,146 | 2,410 | 17,609 | 11 | 10 | 97·17 | 90·90 | 27·29 | 20,611 | 31·93 | ... | ... |
| | ADEN. | | | | | | | | | | | | | | | | | | | | |
| 126 | Aden Municipality ... ... | 44,079 | 3,800 | 2 | P. 913<br>R. 43 | 392<br>9 | 1,305<br>52 | 678 | 1,305 | 89 | 319 | 909 | 52 | 34 | 69·66 | 65·38 | 21·39 | 705 | 15·99 | ... | ... |
| | TOTAL FOR THE BOMBAY PRESIDENCY. BY ESTABLISHMENTS. | | | | | | | | | | | | | | | | | | | | |
| | Municipal... ... ... | 2,155,744 | 8,680 | 48 | P. 38,045<br>R. 10,339 | 34,797<br>1,861 | 72,842<br>12,200 | 1,772 | 73,115 | 51,884 | 14,208 | 69,076 | 12,205 | 6,158 | 94·83 | 50·48 | 34 90 | 69,696 | 32·33 | 726 | 0·34 |
| | Cantonment ... ... | 57,869 | 5,510 | 3 | P. 1,890<br>R. 882 | 1,077<br>203 | 2,967<br>1,085 | 1,351 | 2,968 | 1,812 | 831 | 2,773 | 1,085 | 621 | 93·46 | 57·24 | 58·65 | 2,345 | 40·52 | 6 | 0·10 |
| | Local Fund ... ... | 16,714,297 | 134 | 300 | P. 264,721<br>R. 20,004 | 252,961<br>10,495 | 517,682<br>30,499 | 1,827 | 518,567 | 370,024 | 110,423 | 486,177 | 30,500 | 17,985 | 93·91 | 58·97 | 30·06 | 495,343 | 29·64 | 2,935 | 0·18 |
| | Native State ... ... | 10,446,711 | 145 | 192 | P. 165,524<br>R. 11,010 | 157,821<br>3,555 | 323,345<br>14,565 | 1,760 | 324,110 | 232,284 | 73,477 | 309,676 | 14,578 | 9,547 | 95·77 | 65·55 | 30·56 | 310,467 | 29·72 | ... | ... |
| | In British Territory ... | 18,901,123 | 151 | 351 | P. 304,353<br>R. 31,223 | 288,540<br>12,559 | 592,893<br>43,782 | 1,814 | 594,051 | 423,330 | 125,274 | 557,445 | 43,788 | 24,762 | 94·02 | 56 56 | 30·80 | 566,600 | 29·98 | .. | 0·19 |
| | In Native State Territory. | 10,473,498 | 146 | 192 | P. 165,827<br>R. 11,012 | 158,116<br>3,555 | 323,943<br>14,567 | 2,319 | 324,709 | 232,674 | 73,665 | 310,257 | 14,580 | 9,549 | 95·78 | 65·55 | 30·53 | 311,251 | 29·72 | 3,667 | ... |
| | GRAND TOTAL ... | 29,374,621 | 149 | 543 | P. 470,180<br>R. 42,235 | 446,656<br>16,114 | 916,836<br>58,349 | 1,794 | 918,760 | 656,004 | 198,939 | 867,702 | 58,368 | 34,311 | 94·64 | 58·80 | 30·71 | 877,851 | 29·88 | 3,667 | 0·12 |

# STATEMENT.

Statement No. II, showing the Cost of the Department

| No. | Circles and Districts. | Establishment. | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Deputy Sanitary Commissioners. | Superintendents of Circles. | Inspectors of Sanitation and Vaccination. | | | Assistant Superintendents of Vaccination. | | | Clerks and Kárkuns. | Vaccinators. | | | | | | | | Havildárs and Peons. |
| | | | | 1st Class. | 2nd Class. | 3rd Class. | 1st Class. | 2nd Class. | 3rd Class. | | Government. | Municipal. | Cantonment. | Local Funds. | | | Candidates. | Native States. | |
| | | | | | | | | | | | | | | 1st Grade. | 2nd Grade. | 3rd Grade. | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | THE WESTERN REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | |
| | Administrative Charges | 1 | ... | 1 | 1 | 6 | ... | ... | ... | 2 | ... | ... | ... | ... | ... | ... | ... | ... | 12 |
| 1 | Khándesh Collectorate | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 | 8 | 17 | 3 | 1 | 28 |
| 2 | Násik do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 1 | 1 | 6 | 7 | 2 | ... | 16 |
| 3 | Thána do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3 | ... | 1 | 4 | 9 | 2 | 1 | 18 |
| 4 | Kolába do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 4 | 9 | 1 | 2 | 16 |
| | Total | 1 | ... | 1 | 1 | 6 | ... | ... | ... | 2 | ... | 6 | 1 | 4 | 22 | 42 | 8 | 4 | 90 |
| | THE PRESIDENCY CIRCLE. | | | | | | | | | | | | | | | | | | |
| | Administrative Charges | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 5 | Bombay | ... | ... | ... | ... | ... | ... | ... | 1 | 18 | ... | 9 | ... | ... | ... | ... | ... | ... | 3 |
| | Total | .. | 1 | ... | ... | ... | ... | ... | 1 | 18 | ... | 9 | ... | ... | ... | ... | ... | ... | 3 |
| | THE CENTRAL REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | |
| | Administrative Charges | 1 | ... | 1 | 1 | 4 | ... | ... | ... | 2 | ... | ... | ... | ... | ... | ... | ... | ... | 10 |
| 6 | Ahmednagar Collectorate | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 | 6 | 7 | 1 | ... | 15 |
| 7 | Poona do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3 | 1 | 1 | 5 | 9 | 1 | ... | 19 |
| 8 | Sholápur do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3 | ... | 1 | 4 | 6 | 1 | 1 | 15 |
| 9 | Sátára do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 | 5 | 13 | 2 | 6 | 26 |
| 10 | Ratnágiri do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 | 6 | 8 | 1 | ... | 15 |
| 11 | Sávantvádi State | ... | ... | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 5 | 6 |
| | Total | 1 | ... | 1 | 1 | 5 | ... | ... | ... | 2 | ... | 9 | 1 | 5 | 26 | 43 | 6 | 12 | 106 |
| | THE SOUTHERN REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | |
| | Administrative Charges | 1 | ... | 1 | 1 | 4 | ... | ... | ... | 2 | ... | ... | ... | ... | ... | ... | ... | ... | 10 |
| 12 | Belgaum Collectorate | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | ... | 2 | 4 | 11 | 2 | ... | 18 |
| 13 | Dhárwár do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3 | ... | 1 | 7 | 11 | 2 | 1 | 23 |
| 14 | Bijápur do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | ... | 1 | 3 | 7 | 1 | ... | 12 |
| 15 | Kánara do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 | 5 | 9 | 2 | ... | 15 |
| 16 | Kolhápur States | ... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | 2 | 13 | 14 |
| 17 | Southern Marátha Jághirs | ... | ... | ... | ... | 7 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 18 | 24 |
| | Total | 1 | ... | 1 | 1 | 11 | ... | ... | 1 | 2 | ... | 8 | ... | 5 | 19 | 38 | 10 | 32 | 116 |
| | THE GUJARÁT REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | |
| | Administrative Charges | 1 | ... | 1 | 1 | 3 | ... | ... | ... | 2 | ... | ... | ... | ... | ... | ... | ... | ... | 9 |
| 18 | Surat Collectorate | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | ... | 1 | 3 | 5 | 1 | 4 | 15 |
| 19 | Broach do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 | 1 | 3 | 1 | ... | 6 |
| 20 | Kaira do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 | 3 | 6 | 1 | 1 | 12 |
| 21 | Panch Mahals | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 2 | 3 | 1 | ... | 6 |
| 22 | Ahmedabad Collectorate | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3 | ... | 1 | 3 | 8 | 1 | ... | 14 |
| 23 | Mahi Kántha Agency | ... | ... | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 8 | 9 |
| 24 | Rewa Kántha do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | .. | ... | 16 | 16 |
| | Total | 1 | ... | 1 | 1 | 4 | ... | ... | ... | 2 | ... | 7 | ... | 5 | 12 | 25 | 5 | 29 | 87 |
| | THE SIND REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | |
| | Administrative Charges | 1 | 1 | 1 | 1 | 4 | ... | ... | ... | 2 | ... | ... | ... | ... | ... | ... | ... | ... | 10 |
| 25 | Karáchi Collectorate | ... | .. | ... | ... | ... | ... | ... | ... | 1 | ... | 3 | ... | 1 | 6 | 7 | 1 | ... | 21 |
| 26 | Hyderabad do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 2 | 8 | 3 | 1 | ... | 14 |
| 27 | Thar and Párkar | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 2 | 4 | 1 | ... | 7 |
| 28 | Shikárpur Collectorate | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 5 | ... | 1 | 9 | 6 | 1 | 3 | 23 |
| 29 | Upper Sind Frontier | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 | 2 | 1 | ... | 4 |
| | Total | 1 | 1 | 1 | 1 | 4 | ... | ... | ... | 3 | ... | 9 | ... | 6 | 26 | 22 | 5 | 3 | 79 |
| | THE BARODA CIRCLE. | | | | | | | | | | | | | | | | | | |
| 30 | Baroda States | ... | ... | 1 | 1 | 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 8 | 36 | 40 |
| | THE CUTCH CIRCLE. | | | | | | | | | | | | | | | | | | |
| 31 | Cutch States | ... | 1 | .. | ... | ... | 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 17 | 19 |
| | IN THE ADEN MUNICIPALITY. | | | | | | | | | | | | | | | | | | |
| 32 | Aden | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | ... | ... | ... | ... | ... | ... | 1 |
| | THE KA'THIA'WA'R CIRCLE. | | | | | | | | | | | | | | | | | | |
| 33 | Káthiáwár | ... | 3 | ... | .. | ... | ... | 1 | 5 | 5 | 1 | ... | ... | ... | ... | ... | 7 | 46 | 61 |
| 34 | Pálanpur | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 | ... | ... | ... | ... | ... | 1 | 10 | 12 |
| | TOTAL FOR THE BOMBAY PRESIDENCY. | 5 | 6 | 6 | 6 | 32 | 2 | 1 | 8 | 34 | 2 | 50 | 2 | 25 | 105 | 170 | 50 | 189 | 614 |

## DEPARTMENT.

## in the Bombay Presidency during the year 1892-93.

| Expenditure. | | | | Paid from | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pay of Establishment. | Travelling Allowances. | Contingencies. | Total Cost. | Provincial Funds. | Local Funds. | Municipal Funds. | Cantonment Funds. | Native State Funds. | Total. | Number of all successful Vaccinations and Re-vaccinations. | Average Cost of each successful Case. |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | | Rs. a. p. |
| 14,797 14 10 | 1,732 8 8 | 783 14 9 | 17,314 6 3 | 17,314 6 3 | ..... | ..... | ..... | ..... | 17,314 6 3 | ..... | ..... |
| 7,824 4 6 | 56 9 0 | 518 9 6 | 8,399 7 0 | ..... | 7,803 4 1 | 277 0 0 | ..... | 319 2 11 | 8,399 7 0 | 40,487 | 0 3 4 |
| 4,891 3 5 | 41 0 0 | 317 13 9 | 5,250 1 2 | ..... | 4,529 9 4 | 573 10 0 | 146 13 10 | ..... | 5,250 1 2 | 26,328 | 0 3 2 |
| 5,144 10 6 | 74 8 0 | 488 15 5 | 5,708 1 11 | ..... | 4,545 1 9 | 712 3 2 | ..... | 450 13 0 | 5,708 1 11 | 23,929 | 0 3 10 |
| 4,474 9 6 | 12 14 0 | 363 2 9 | 4,850 10 3 | ..... | 4,172 2 5 | 24 2 11 | ..... | 654 4 11 | 4,850 10 3 | 20,884 | 0 3 9 |
| 37,132 10 9 | 1,917 7 8 | 2,472 8 2 | 41,522 10 7 | 17,314 6 3 | 21,050 1 7 | 1,587 0 1 | 146 13 10 | 1,424 4 10 | 41,522 10 7 | 111,628 | 0 5 11 |
| 4,200 0 0 | 360 0 0 | 16 0 0 | 4,576 0 0 | 4,576 0 0 | ..... | ..... | ..... | ..... | 4,576 0 0 | ..... | ..... |
| 9,052 15 6 | ..... | 5,901 15 6 | 14,954 15 0 | ..... | ..... | 14,954 15 0 | ..... | ..... | 14,954 15 0 | 21,606 | 0 11 1 |
| 13,252 15 6 | 360 0 0 | 5,917 15 6 | 19,530 15 0 | 4,576 0 0 | ..... | 14,954 15 0 | ..... | ..... | 19,550 15 0 | 21,606 | 0 14 6 |
| 17,458 0 0 | 2,098 7 4 | 773 12 0 | 20,330 3 4 | 20,330 3 4 | ..... | ..... | ..... | ..... | 20,330 3 4 | ..... | ..... |
| 4,251 4 0 | 28 12 0 | 478 8 0 | 4,758 8 0 | ..... | 4,220 14 3 | 537 9 9 | ..... | ..... | 4,758 8 0 | 30,088 | 0 2 6 |
| 5,594 14 2 | 86 10 0 | 1,491 3 11 | 7,122 12 1 | ..... | 4,573 3 7 | 1,555 13 6 | 993 11 0 | ..... | 7,122 12 1 | 36,241 | 0 3 2 |
| 4,271 1 3 | 20 12 0 | 469 15 4 | 4,761 12 7 | ..... | 3,313 11 9 | 1,197 1 3 | ..... | 250 15 7 | 4,761 12 7 | 29,356 | 0 2 7 |
| 6,429 12 7 | 60 8 6 | 475 4 4 | 6,965 9 5 | ..... | 5,189 6 11 | 293 4 0 | ..... | 1,482 14 6 | 6,965 9 5 | 51,880 | 0 2 2 |
| 4,416 1 5 | ..... | 298 10 11 | 4,714 12 4 | ..... | 4,588 13 1 | 125 15 3 | ..... | ..... | 4,714 12 4 | 31,962 | 0 2 4 |
| 1,199 8 0 | ..... | 127 13 10 | 1,327 5 10 | ..... | ..... | ..... | ..... | 1,327 5 10 | 1,327 5 10 | 6,087 | 0 3 6 |
| 43,620 9 5 | 2,245 1 10 | 4,115 4 4 | 49,980 15 7 | 20,330 3 4 | 21,886 1 7 | 3,709 11 9 | 993 11 0 | 3,061 3 11 | 49,980 15 7 | 185,564 | 0 4 4 |
| 17,434 12 3 | 4,455 10 0 | 945 15 1 | 22,836 5 4 | 22,836 5 4 | ..... | ..... | ..... | ..... | 22,836 5 4 | ..... | ..... |
| 5,405 14 3 | 32 0 6 | 954 9 6 | 6,392 8 3 | ..... | 5,498 7 3 | 346 1 0 | 48 0 0 | ..... | 6,392 8 3 | 34,693 | 0 2 11 |
| 6,611 5 10 | 8 9 6 | 1,796 12 8 | 8,416 12 0 | ..... | 8,346 11 4 | 1,789 10 8 | ..... | 280 6 0 | 8,416 12 0 | 33,502 | 0 4 0 |
| 3,594 12 0 | 21 3 0 | 359 9 3 | 3,975 7 3 | ..... | 3,663 7 3 | 312 0 0 | ..... | ..... | 3,975 7 3 | 29,323 | 0 2 2 |
| 4,419 15 10 | 58 9 0 | 241 0 5 | 4,719 9 3 | ..... | 4,583 8 3 | 136 1 0 | ..... | ..... | 4,719 9 3 | 15,859 | 0 4 9 |
| 5,031 15 8 | ..... | 175 3 3 | 5,207 2 11 | ..... | ..... | ..... | ..... | 5,207 2 11 | 5,207 2 11 | 30,845 | 0 2 9 |
| 7,832 0 8 | ..... | 386 10 7 | 8,218 11 3 | ..... | ..... | ..... | ..... | 8,218 11 3 | 8,218 11 3 | 23,537 | 0 5 7 |
| 50,330 12 6 | 4,575 15 0 | 4,859 12 9 | 59,766 8 3 | 22,836 5 4 | 20,092 2 1 | 3,083 12 8 | 48 0 0 | 13,706 4 2 | 59,766 8 3 | 167,759 | 0 5 8 |
| 13,380 6 1 | 2,926 12 3 | 744 11 2 | 17,051 13 6 | 17,051 13 6 | ..... | ..... | ..... | ..... | 17,051 13 6 | ..... | ..... |
| 4,188 11 7 | 14 0 0 | 391 12 1 | 4,594 7 8 | ..... | 2,767 12 9 | 731 10 11 | ..... | 1,095 0 0 | 4,594 7 8 | 27,353 | 0 2 8 |
| 1,788 9 3 | 14 4 0 | 175 10 9 | 1,978 8 0 | ..... | 1,458 15 6 | 519 8 6 | ..... | ..... | 1,978 8 0 | 9,535 | 0 3 3 |
| 3,362 6 0 | 17 12 0 | 301 9 2 | 3,681 11 2 | ..... | 2,966 12 2 | 437 6 6 | ..... | 277 8 6 | 3,681 11 2 | 26,187 | 0 2 3 |
| 1,791 14 10 | 22 6 0 | 138 7 2 | 1,952 12 0 | ..... | 1,667 12 0 | 285 0 0 | ..... | ..... | 1,952 12 0 | 11,770 | 0 2 8 |
| 4,123 13 0 | 22 12 0 | 371 2 7 | 4,522 11 7 | ..... | 3,104 9 7 | 1,418 2 0 | ..... | ..... | 4,522 11 7 | 27,429 | 0 2 8 |
| 2,512 8 0 | ..... | 146 9 0 | 2,659 1 0 | ..... | ..... | ..... | ..... | 2,659 1 0 | 2,659 1 0 | 13,550 | 0 3 2 |
| 4,127 12 6 | ..... | 299 12 0 | 4,427 8 6 | ..... | ..... | ..... | ..... | 4,427 8 6 | 4,427 8 6 | 25,045 | 0 2 10 |
| 35,281 1 3 | 3,017 14 3 | 2,569 9 11 | 40,868 9 5 | 17,051 13 6 | 11,965 14 0 | 3,391 11 11 | ..... | 8,459 2 0 | 40,868 9 5 | 140,869 | 0 4 8 |
| 18,643 6 11 | 4,538 4 10 | 2,023 7 8 | 25,210 3 5 | 22,182 1 0 | ..... | 3,028 2 5 | ..... | ..... | 25,210 3 5 | ..... | ..... |
| 5,103 14 0 | 885 13 11 | 595 11 5 | 6,585 7 4 | ..... | 5,052 15 6 | 1,532 7 10 | ..... | ..... | 6,585 7 4 | 15,148 | 0 6 11 |
| 4,255 5 3 | 785 8 2 | 455 11 11 | 5,496 9 4 | ..... | 5,075 4 6 | 421 4 10 | ..... | ..... | 5,496 9 4 | 22,360 | 0 3 11 |
| 2,029 7 9 | 469 0 2 | 208 11 10 | 2,707 3 9 | ..... | 2,707 3 9 | ..... | ..... | ..... | 2,707 3 9 | 9,529 | 0 4 7 |
| 7,105 5 6 | 985 15 3 | 612 14 4 | 8,701 3 1 | ..... | 6,080 11 1 | 1,306 8 0 | ..... | 1,317 0 0 | 8,704 3 1 | 33,826 | 0 4 1 |
| 1,267 0 7 | 286 2 3 | 123 3 11 | 1,676 6 9 | ..... | 1,676 6 9 | ..... | ..... | ..... | 1,676 6 9 | 4,987 | 0 5 5 |
| 38,409 8 0 | 7,950 12 7 | 4,019 13 1 | 50,380 1 8 | 22,182 1 0 | 20,592 9 7 | 6,288 7 1 | ..... | 1,317 0 0 | 50,380 1 8 | 85,850 | 0 9 5 |
| 13,131 13 1 | 199 8 6 | 637 5 1 | 13,968 10 8 | ..... | ..... | ..... | ..... | 13,968 10 8 | 13,968 10 8 | 70,858 | 0 3 2 |
| 3,793 8 0 | 3,442 8 0 | ..... | 7,236 0 0 | ..... | ..... | ..... | ..... | 7,236 0 0 | 7,236 0 0 | 17,597 | 0 6 7 |
| 554 4 0 | ..... | 49 8 3 | 603 12 3 | ..... | ..... | 603 12 3 | ..... | ..... | 603 12 3 | 948 | 0 10 3 |
| 25,073 7 5 | 3,982 8 8 | 3,328 3 0 | 32,384 3 1 | 6,270 7 1 | ..... | ..... | ..... | 26,113 12 0 | 32,384 3 1 | 81,720 | 0 6 4 |
| 4,029 5 2 | 58 7 0 | 273 3 8 | 4,360 15 10 | 126 0 0 | ..... | ..... | 126 0 0 | 4,108 15 10 | 4,360 15 10 | 17,619 | 0 3 11 |
| 264,609 15 1 | 27,750 3 6 | 28,243 3 9 | 320,603 6 4 | 110,687 4 6 | 95,586 12 10 | 33,619 6 9 | 1,314 8 10 | 79,395 5 5 | 320,603 6 4 | 902,013 | 0 |



B 244—4 ap

# B.—DISPENSARY VACCINATION.

Statement No. III, showing Dispensary Vaccination in the Bombay Presidency during the year 1892-93.

| Districts. | | Number of Dispensaries in each District to which a Vaccinator is attached. | Average Number of Vaccinators attached to Dispensaries during the Season. | Total Number of Persons vaccinated. | | | Average Number of persons vaccinated by each Vaccinator. | Primary Vaccination. | | | | Re-vaccination. | | Percentage of Successful Cases. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. |
| | | | | | | | | | Under 1 year. | 1 and under 6. | Total of all ages. | | | | |
| 1 | | 2 | 3 | 4 | | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| | THE WESTERN REGISTRATION DISTRICT. | | | Males. | Females. | Total. | | | | | | | | | |
| Khándesh Collectorate. | Dharangaon ... | .. | ... | P. 18 | 14 | 32 | 41 | 32 | 32 | ... | 32 | 9 | 3 | 100·00 | 33·33 |
| | | | | R. 9 | ... | 9 | | | | | | | | | |
| | THE PRESIDENCY CIRCLE. | | | | | | | | | | | | | | |
| Bombay City. | Her Majesty's Common Jail... .. | ... | ... | R. 50 | 4 | 54 | 54 | ... | ... | ... | ... | 54 | 18 | ... | 33 33 |
| | Her Majesty's House of Correction ... | ... | ... | R. 46 | ... | 46 | 46 | ... | ... | ... | ... | 46 | 33 | ... | 71·74 |
| | TOTAL ... | ... | ... | R. 96 | 4 | 100 | 50 | ... | ... | ... | ... | 100 | 51 | ... | 51·00 |
| | THE SOUTHERN REGISTRATION DISTRICT. | | | | | | | | | | | | | | |
| Southern Maratha Jaghirs. | Sángli ... ... | ... | ... | P. 294 | 278 | 572 | 660 | 572 | 433 | 70 | 505 | 90 | 29 | 88·29 | 32·22 |
| | | | | R. 77 | 13 | 90 | | | | | | | | | |
| | Sháhápur ... ... | ... | ... | P. 223 | 226 | 449 | 518 | 449 | 261 | 130 | 392 | 69 | 20 | 87·31 | 28·99 |
| | | | | R. 46 | 23 | 69 | | | | | | | | | |
| | Mangalvedha ... | ... | ... | P. 194 | 245 | 439 | 493 | 439 | 308 | 68 | 377 | 54 | 41 | 85·88 | 75·93 |
| | | | | R. 45 | 9 | 54 | | | | | | | | | |
| | Terdál ... .. | ... | ... | P. 71 | 59 | 130 | 136 | 130 | 107 | 8 | 115 | 6 | 4 | 88·46 | 66·66 |
| | | | | R. 4 | 2 | 6 | | | | | | | | | |
| | Shirhatti ... ... | ... | ... | P. 70 | 90 | 160 | 204 | 160 | 123 | 21 | 145 | 44 | 28 | 90·62 | 63·64 |
| | | | | R. 29 | 15 | 44 | | | | | | | | | |
| | TOTAL ... | ... | ... | P. 852 | 898 | 1,750 | 403 | 1,750 | 1,232 | 297 | 1,534 | 263 | 122 | 87·66 | 46·38 |
| | | | | R. 201 | 62 | 263 | | | | | | | | | |
| | THE GUJARAT REGISTRATION DISTRICT. | | | | | | | | | | | | | | |
| Surat Collectorate | Bulsár ... ... | ... | ... | P. 147 | 164 | 311 | 313 | 311 | 212 | 91 | 306 | 2 | ... | 98·39 | ... |
| | | | | R. 2 | ... | 2 | | | | | | | | | |
| Kaira Collectorate | Kaira Jail ... ... | ... | ... | R. 82 | ... | 82 | 82 | ... | ... | ... | ... | 82 | 76 | ... | 92·68 |

## Statement No. III, showing Dispensary Vaccination, &c.—*continued.*

| Districts. | | Number of Dispensaries in each District to which a Vaccinator is attached. | Average Number of Vaccinators attached to Dispensaries during the Season. | Total Number of Persons vaccinated. | | | Average Number of persons vaccinated by each Vaccinator. | Primary Vaccination. | | | | Re-vaccination. | | Percentage of Successful Cases. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. |
| | | | | | | | | | Under 1 year. | 1 and under 6. | Total of all Ages. | | | | |
| 1 | | 2 | 3 | 4 | | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| | THE GUJARA'T REGISTRATION DISTRICT—*continued.* | | | Males. | Females. | Total. | | | | | | | | | |
| Ahmedabad Collectorate | Khárághoda ... | ... | ... | P 2 | 4 | 6 | 6 | 6 | 1 | ... | 1 | ... | ... | 16·67 | ... |
| Mahi Kántha States. | Sádra ... ... | ... | ... | P 81 | 72 | 153 | 153 | 155 | 123 | 16 | 139 | ... | ... | 90·85 | ... |
| | Total ... | ... | ... | P 230<br>R 84 | 240<br>... | 470<br>84 | 139 | 472 | 336 | 107 | 446 | 84 | 76 | 94·89 | 90·48 |
| ADEN ... | Shaikh Othaman ... | ... | ... | P 385<br>R 56 | 121<br>24 | 506<br>80 | 586 | 506 | 75 | 74 | 458 | 80 | 67 | 90·51 | 83·75 |
| BUSHIRE ... ... ... ... | | — | ... | P 215<br>R 10 | 250<br>6 | 465<br>16 | 481 | 465 | 298 | 98 | 426 | 16 | 4 | 91·61 | 25·00 |
| MUSKAT ... ... ... ... | | ... | ... | P 49 | 34 | 83 | 83 | 83 | 27 | 18 | 80 | ... | ... | 96·39 | ... |
| TOTAL FOR THE | BRITISH TERRITORY ... ... | ... | ... | P 816<br>R 255 | 587<br>34 | 1,403<br>289 | 188 | 1,403 | 645 | 281 | 1,303 | 289 | 201 | 92·87 | 69·55 |
| | NATIVE STATES ... | ... | ... | P 933<br>R 201 | 970<br>62 | 1,903<br>263 | 361 | 1,905 | 1,355 | 313 | 1,673 | 263 | 122 | 87·91 | 46·39 |
| GRAND TOTAL FOR THE BOMBAY PRESIDENCY ... | | ... | ... | P 1,749<br>R 456 | 1,557<br>96 | 3,306<br>552 | 277 | 3,308 | 2,000 | 594 | 2,976 | 552 | 323 | 90·02 | 58·51 |

*Comparative Statement No. IV, showing the Number of Persons primarily vaccinated and the Number of those Persons who were successfully vaccinated in each of the under-mentioned official years.*

| Establishment. | Persons primarily vaccinated. | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. |
| | Years ending 31st March. | | | | | | | | | | | | | | | | | | | |
| | 1884. | | 1885. | | 1886. | | 1887. | | 1888. | | 1889. | | 1890. | | 1891. | | 1892. | | 1893. | |
| Government ... ... ... | 6,400 | 6,165 | 4,397 | 4,249 | 4,947 | 4,545 | 4,461 | 4,183 | 3,894 | 3,653 | 4,768 | 4,543 | 3,976 | 3,718 | 4,394 | 4,209 | ... | ... | ... | ... |
| Municipal ... ... ... | 59,559 | 56,670 | 56,895 | 54,582 | 58,083 | 55,631 | 57,523 | 55,484 | 62,774 | 60,208 | 67,019 | 62,963 | 67,306 | 63,367 | 67,512 | 64,221 | 72,637 | 69,258 | 72,842 | 69,076 |
| Local Fund ... ... ... | 441,180 | 426,408 | 441,340 | 425,148 | 471,789 | 454,756 | 470,964 | 451,857 | 487,441 | 466,469 | 500,656 | 476,642 | 509,306 | 482,945 | 494,661 | 467,764 | 528,112 | 497,894 | 517,682 | 486,177 |
| Cantonment ... .... ... | 1,465 | 1,449 | 1,485 | 1,472 | 1,518 | 1,442 | 1,474 | 1,402 | 1,906 | 1,856 | 2,282 | 2,197 | 2,044 | 2,006 | 1,852 | 1,815 | 1,904 | 1,830 | 2,967 | 2,773 |
| Native States ... ... | 284,180 | 269,598 | 270,194 | 253,942 | 294,426 | 279,746 | 300,564 | 285,003 | 311,721 | 296,157 | 310,994 | 296,213 | 308,408 | 294,002 | 308,210 | 296,305 | 323,933 | 311,756 | 323,345 | 309,676 |
| Dispensary ... ... ... | 29,986 | 27,439 | 24,014 | 21,626 | 20,298 | 18,926 | 17,699 | 16,505 | 8,501 | 7,879 | 6,703 | 6,020 | 5,479 | 4,800 | 5,010 | 4,369* | 4,033 | 3,611 | 3,306 | 2,976 |
| Army ... European ... | 497 | 466 | 328 | 305 | 206 | 188 | 317 | 280 | 401 | 359 | 378 | 297 | 192 | 154 | 230 | 182 | 392 | 305 | 430 | 295 |
| Army ... Native ... | 3,698 | 3,128 | 3,554 | 3,126 | 3,120 | 2,901 | 2,970 | 2,672 | 3,117 | 2,682 | 3,594 | 2,843 | 3,521 | 3,190 | 3,391 | 3,048 | 4,088 | 3,636 | 3,593 | 2,946 |
| Total .... | 826,965 | 791,323 | 802,207 | 764,445 | 854,387 | 818,135 | 855,972 | 817,386 | 879,755 | 839,263 | 896,394 | 851,718 | 900,232 | 854,182 | 885,260 | 841,913 | 935,099 | 888,290 | 924,165 | 873,919 |

NOTE.—Re-vaccinations are wholly excluded from this Statement.

*From 1892, the vaccination work of Government vaccinators is included in the Káthiáwár States.

## Statement No. V showing particulars of Vaccination verified by Inspecting Officers.

| Districts or Circles. | | Total number of persons vaccinated. | Total Number Inspected. | | Percentage of Inspections to Total Number Vaccinated. | | Percentage of cases found successful of Total Number inspected. | | Percentage of success reported by Vaccinators. |
|---|---|---|---|---|---|---|---|---|---|
| | | | By Deputy Sanitary Commissioners. | By Inspectors and Superintendents | By Deputy Sanitary Commissioners. | By Inspectors and Superintendents. | By Deputy Sanitary Commissioners. | By Inspectors and Superintendents. | |
| | *British Districts.* | | | | | | | | |
| Western Registration District. | Khándesh ... ... ... ... | 41,246 | 1,195 | 17,356 | 2·85 | 42·03 | 96·32 | 94·86 | 92·48 |
| | Násik ... ... ... ... | 28,356 | 1,646 | 8,893 | 5·80 | 31·36 | 97·21 | 95·66 | 92·85 |
| | Thána ... ... ... ... | 24,943 | 587 | 9,107 | 2·35 | 36·51 | 96·25 | 96·13 | 88·06 |
| | Kolába ... ... ... ... | 18,526 | 734 | 4,162 | 3·96 | 22·47 | 99·05 | 97·31 | 96·90 |
| Central Registration District. | Ahmednagar ... ... ... | 32,893 | 3,668 | 6,535 | 11·15 | 19·88 | 99·67 | 98·36 | 91·47 |
| | Poona ... ... ... ... | 40,205 | 3,707 | 11,048 | 9·22 | 27·48 | 98·41 | 97·78 | 90·14 |
| | Sholápur ... ... ... ... | 29,770 | 18 | 10,626 | 0·06 | 35·69 | 100·00 | 99·60 | 92·27 |
| | Sátára ... ... ... ... | 45,616 | 883 | 17,292 | 1·94 | 37·92 | 99·77 | 99·31 | 92·46 |
| | Ratnágiri ... ... ... ... | 33,687 | 337 | 10,890 | 1·00 | 32·32 | 100·00 | 99·39 | 95·88 |
| Southern Registration District. | Belgaum ... ... ... ... | 38,187 | 36 | 10,297 | 0·09 | 26·96 | 100·00 | 98·89 | 90·85 |
| | Dhárwár ... ... ... ... | 36,869 | 343 | 11,560 | 0·90 | 31·35 | 99·71 | 98·83 | 89·07 |
| | Bijápur ... ... ... ... | 32,360 | ... | 12,523 | ... | 38·69 | ... | 98·73 | 90·61 |
| | Kánara ... ... ... ... | 18,297 | 5 | 6,940 | 0·03 | 37·93 | 100·00 | 95·44 | 86·67 |
| Gujarát Registration District ... | Surat ... ... ... ... | 20,503 | 319 | 8,098 | 1·56 | 39·50 | 99·06 | 97·72 | 94·67 |
| | Broach ... ... ... ... | 9,891 | 459 | 2,200 | 4·64 | 22·24 | 99·56 | 96·68 | 96·40 |
| | Kaira ... ... ... ... | 24,428 | 2,715 | 7,901 | 11·11 | 32·34 | 98·33 | 98·49 | 97·21 |
| | Panch Mahals ... ... ... | 12,085 | 628 | 4,242 | 5·19 | 35·10 | 99·20 | 99·22 | 97·39 |
| | Ahmedabad ... ... ... | 27,999 | 985 | 7,473 | 3·52 | 26·79 | 99·19 | 98·78 | 97·97 |
| Sind Registration District ... | Kárachi ... ... ... ... | 18,509 | 544 | 4,459 | 2·94 | 24·09 | 86·76 | 89·77 | 81 84 |
| | Hyderabad ... ... ... | 25,151 | 501 | 13,270 | 1·99 | 52·76 | 86·03 | 96·19 | 88·90 |
| | Thar and Párkar ... ... ... | 10,569 | ... | 3,907 | ... | 36·97 | ... | 90·43 | 90·16 |
| | Shikárpur ... ... ... ... | 36,615 | 678 | 11,516 | 1·85 | 31 45 | 93·81 | 94·91 | 84·73 |
| | Upper Sind Frontier ... ... | 5,774 | 46 | 1,963 | 0·80 | 34·00 | 100·00 | 95·57 | 86·37 |
| | Total ... | 612,479 | 20,034 | 202,258 | 3·27 | 33·02 | 97·96 | 97·23 | 91·54 |
| | *Native States.* | | | | | | | | |
| Native States ... | States in Western Registration District. | 7,466 | 67 | 1,703 | 0·90 | 22·81 | 100·00 | 96·89 | 97·41 |
| | Do. Central do. ... | 18,798 | 244 | 3,010 | 1·30 | 16·01 | 99·40 | 99·53 | 92·71 |
| | Do. Southern do. ... | 63,144 | 192 | 31,871 | 0·30 | 50·47 | 94·27 | 97·32 | 89·80 |
| | Do. Gujarát do. ... | 50,174 | 1,372 | 8,230 | 2·73 | 16·40 | 95·12 | 93·78 | 98·50 |
| | Do. Sind do. ... | 2,888 | ... | 2,798 | ... | 96·88 | ... | 96·21 | 97·06 |
| | Do. Káthiáwár ... ... | This information from Káthiáwár and Pálanpur has not been received. | | | | | | | 94·09 |
| | Do. Pálanpur ... ... | | | | | | | | 97·15 |
| | Baroda ... ... ... ... | 74,129 | ... | 38,942 | ... | 52·52 | ... | 97·29 | 95·59 |
| | Cutch ... ... ... ... | 18,487 | ... | 14,232 | ... | 76·98 | ... | 91·84 | 95·19 |
| | Total ... | 235,086 | 1,875 | 100,786 | 0·80 | 42·87 | 95·78 | 96·00 | 94·51 |
| | Grand Total ... | 847,565 | 21,909 | 303,044 | 2·59 | 35·75 | 97·77 | 96·82 | 92·36 |

No. 2980.

GENERAL DEPARTMENT.

Bombay Castle, 24th August 1893.

Letter from the Sanitary Commissioner for the Government of Bombay, No. 1616-B., dated 23rd June 1893—Submitting the Annual Report on Vaccination for the year 1892-93.

RESOLUTION.—During 1892-93 the vaccination establishment was increased by the addition of three Superintendents, one Inspector, three Assistant Superintendents, one clerk, 17 vaccinators and 26 peons. The Extra Superintendents and Assistant Superintendents were employed in the Káthiáwár States and the Inspector in the Mahi Kántha Agency. There were six additional vaccinators in British Districts and 11 in Native States. The expenditure on the Department and its incidence are shown in the subjoined table:—

| | 1891-92. | 1892-93. |
|---|---|---|
| | Rs. | Rs. |
| Provincial ... ... ... ... ... | 1,15,104 | 1,10,687 |
| Municipal ... ... ... ... ... | 32,674 | 33,619 |
| Cantonment ... ... ... ... ... | 1,128 | 1,315 |
| Local Fund ... ... ... ... ... | 93,934 | 95,587 |
| Native States ... ... ... ... ... | 66,352 | 79,395 |
| Total ... | 3,09,192 | 3,20,603 |

It is observed that the figures under the heads Provincial, Cantonment and Native States for 1891-92 do not agree with those given in last year's report. The difference under the last-named head is perhaps fully accounted for by the inclusion of the Káthiáwár and Pálanpur States, and the Sanitary Commissioner should be requested to explain that under the first-named head, as the amount is considerable. The decrease in the expenditure from Provincial Revenues was due to the absence of one of the officers on the superior staff. Government are glad to observe the increased expenditure by Native States.

2. The work done by the Department during the last two years is shown below:—

| Years. | Primary Vaccination. | Re-vaccination. | Total. |
|---|---|---|---|
| 1891-92 ... ... ... ... | 935,099 | 62,966 | 998,065 |
| 1892-93 ... ... ... ... | 924,165 | 62,593 | 986,758 |
| Decrease ... | 10,934 | 373 | 11,307 |

The net decrease in primary vaccinations is 1·17 *per cent.* and in re-vaccinations 0·59 *per cent.* In Registration Districts the most noteworthy decrease in primary vaccinations is in Sind (10·09); and in the Southern Registration District there is a decrease of (3·74). The falling off is attributed by the Sanitary Commis-

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sioner to the prevalence of fever and cholera and to the scarcity. The scarcity was much more felt in 1891-92 than in 1892-93, but as the season of the latter year was decidedly more unhealthy, and the mortality from cholera and fever was much above the average, the Sanitary Commissioner's explanation may be accepted as correct. In the Presidency Circle there was a falling off of 2·55 *per cent.*, and it is stated that owing to an attack of foot and mouth disease among the calves lymph could not be obtained in sufficient quantity. In Native State circles Pálanpur and Cutch give the worst results, and no explanation has been given for the marked decrease.

3. The difference in the number of cases of re-vaccination in 1892-93, as compared with 1891-92, is slight, but in the Presidency District and in the Gujarát Division the reduction is much to be regretted. An examination of the figures for the last ten years shows that but little real progress has as yet been made in this important matter, and Government hope that no efforts will be spared by the sanitary officers to show a marked improvement in future years.

4. The percentage of successful primary vaccination is given as 94·56 and of re-vaccination as 58·74. In the Presidency Circle there is as usual a considerable variation under the latter head. The figures for the last four years are 18·09, 38·08, 75·34 and 51·95 respectively. No explanation has been offered, but it is gathered from previous reports that unknown results are the disturbing factor, and it would be interesting if the percentage of success, excluding these cases, were also furnished. In Cutch, under the same head, the rate fell from 70 to 50·85 and here again no cause has been assigned. A review of the tables given in paragraphs 15 and 22 of the report shows that much remains to be done towards putting the vaccination of infants on a satisfactory footing. In Kánara the number of successful operations on infants was only 12·30 per mille of population and the percentage protected was only 48·63, and it is to be regretted that the attention which the Deputy Sanitary Commissioner appears to have given to the district has not succeeded in producing better results. In the other three districts of the Southern Registration District the percentage protected was also much below the average. In Khándesh, Násik and Thána also the figures are not very satisfactory, but this is no doubt partly due to the absence of the Deputy Sanitary Commissioner. The rates given in the tables referred to cannot of course be looked on as entirely accurate; they vary according to the accuracy or incorrectness of the registration of vital statistics, but in most districts they give a fair idea of the work done.

5. The Sanitary Commissioner expresses satisfaction with the amount of work done by the Inspecting officers. It seems to Government, however, that their tours might be more systematically arranged, so that if any part of a district cannot be visited in one year it may receive attention in the next. The details of the tours in 1890-91 are not available, but a comparison of those made in the last two years shows several defects. Thus, in the Western Registration District, parts of Násik and Khándesh have not been visited: in the Central Registration District, Ratnágiri seems to have been somewhat neglected, four tálukas only having been inspected last year, and three of these again in the year under review; in the Southern Registration District, Kánara alone seems to have received much attention, though as already remarked the results are not encouraging, while Bijápur was not visited at all in 1892-93 and only two tálukas were inspected in 1891-92 and one in 1889-90: in the Gujarát Registration District, only one táluka of the Panch Maháls has been visited in the last two years: in the Sind Registration District, the tours are generally more satisfactory than in the Presidency proper. Government trust that the Sanitary Commissioner will take steps to ensure that no district is in future neglected, and in the annual report information should be given not merely of the total numbers examined in each Registration District, but also of the amount of inspection work done and the time spent in travelling in each Collectorate.

6. The average number of persons vaccinated by each vaccinator was 1,794. against 1,860 in 1891-92 and 1,766 in 1890-91. The highest average in British Districts occurs in Bijápur (2,489) and the lowest in Karáchi (1,089). In the Collectorates of the Central District alone is there any uniformity: in all the others the variation is considerable. In Kolába the average was 1,323 and in Ratnágiri 2,105, showing a difference which it is difficult to understand. Dhárwár (1,676) and Bijápur (2,489) are in marked contrast and the variation is still greater if the rural circles only are compared. Karáchi has the lowest average in Sind, and Government have in a former review remarked that the difficulties in this district are not great. The Sanitary Commissioner should, when possible, notice and account for any great discrepancies in adjacent districts.

7. The subjects referred to in paragraphs 100—103 of the report can more suitably be treated of in separate detailed reports. Administration reports should for the most part contain simply the record of work done.

W. L. HARVEY,
Under Secretary to Government.

To

The Sanitary Commissioner for the Government of Bombay,
The Commissioner in Sind,
The Commissioner, N. D.,
The Commissioner, C. D.,
The Commissioner, S. D.,
All Collectors, including the Collectors and Deputy Commissioners in Sind,
The Municipal Commissioner for the City of Bombay,
The Compiler, General Administration Report for 1892-93.
} With copies of the report.

The Editors' Table, Bombay,
The Editors' Table, Poona,
The Editor of the *Dhárwár Vritt* (for his own use and for the use of other Editors of Newspapers in Dhárwár),

The Government of India,
The Secretary of State for India.
} By letter.

# REPORT

ON

# VACCINATION

IN THE

# BOMBAY PRESIDENCY,

FOR THE YEAR

## 1895-96.

*WITH APPENDICES.*

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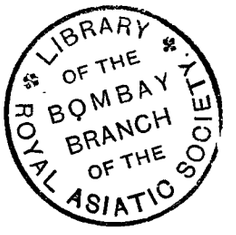


Bombay:
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1896.

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# VACCINATION REPORT FOR THE YEAR 1895-96.

Vaccination Report.

The Government of India in Resolution, Home Department (Public), No. 28-1579-95, dated 15th July 1887, embodied in Bombay Government Resolution in the General Department, No. 2426, dated 17th August 1887, paragraph 5, ruled that the report on vaccination should be submitted in full every third year, statistical returns and brief commentaries or notes being submitted in the intermediate years. In accordance with these instructions the report on vaccination for the year 1895-96 has been submitted in full.

Changes amongst the Supervising Officers.

2. The changes amongst the supervising officers, which took place from 1st April 1895 to 31st March 1896, were as follows:—

(*a*) In the Western Registration District, Surgeon-Lieutenant-Colonel J. W. Clarkson delivered over charge of the office of the Deputy Sanitary Commissioner to Surgeon-Major C. G. W. Lowdell, Civil Surgeon, Násik, on 6th October 1895, who, in his turn, handed it over to Surgeon-Major A. V. Anderson, M.B., I. M. S., on 28th November 1895; the latter officer acted as Deputy Sanitary Commissioner in this District till the end of the year.

(*b*) In the Central Registration District, Surgeon-Major A. V. Anderson M.B., I. M. S., acted for the Deputy Sanitary Commissioner of this District from 1st January to 14th April 1895, when he delivered over charge to Surgeon-Major A. W. F. Street, D. S. O., permanent holder of the post, who continued in it till the end of the year.

(*c*) In the Gujarát Registration District, Surgeon-Captain T. E. Dyson, M.B., C.M., obtained privilege leave from 12th July to 12th October 1895, and his duties were carried on by Surgeon-Major K. S. Nariman, Civil Surgeon, Surat.

(*d*) In the Southern Registration District, Surgeon-Major O. A. Channer was in charge from the beginning of the year up to 24th March 1896, from which date Surgeon-Major R. W. S. Lyons officiated up to the end of the year.

Vaccination in Native States.

3. By Government Resolution in the General Department, Nos. 2803 and 4762, dated respectively 27th July and 18th December 1894, the vaccination statistics of the following Native States are shown separately in Appendix II:—

Baroda. | Káthiáwár.
Cutch. | Pálanpur.
I'dar.

Strength of the Department.

4. The subjoined table shows in detail the strength of the department during the year 1895-96, constrasted with that of the preceding year:—

| No. | Districts or Circles. | Area in square miles. | Population according to Census of 1891. | Deputy Sanitary Commissioners. | Superintendents of Vaccination. | Inspectors of Sanitation and Vaccination. | Assistant Superintendents of Vaccination. | Clerks. | Number of Vaccinators. | | | | | | Number of Peons and Kárkuns. | | | | | | Total strength. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Municipal. | Cantonment. | Local Fund. | | Native States. | Total. | Government. | Municipal. | Local Fund. | Cantonment. | Native States. | Total. | |
| | | | | | | | | | | | Vaccinators. | Candidates. | | | | | | | | | |
| 1 | Western Registration District ... | 24,546 | 3,898,814 | 1 | ... | 8 | ... | 2 | 6 | 1 | 72 | 8 | 4 | 91 | 12 | 5 | 73 | ... | 4 | 94 | 196 |
| 2 | Presidency Circle ... | 22 | 821,764 | ... | 1 | ... | 1 | 5 | 9 | ... | ... | ... | ... | 9 | ... | 20 | ... | ... | ... | 20 | 36 |
| 3 | Central Registration District ... ... | 28,702 | 5,595,079 | 1 | ... | 7 | ... | 2 | 9 | 1 | 74 | 6 | 12 | 102 | 10 | 8 | 74 | 1 | 13 | 106 | 218 |
| 4 | Southern Registration District ... | 28,781 | 4,956,428 | 1 | ... | 13 | 1 | 3 | 8 | ... | 62 | 10 | 33 | 113 | 10 | 7 | 62 | ... | 41 | 120 | 248 |
| 5 | Gujarát Registration District ... | 25,812 | 4,382,067 | 1 | ... | 6 | ... | 2 | 7 | ... | 43 | 5 | 25 | 80 | 9 | 6 | 43 | ... | 26 | 84 | 173 |
| 6 | Sind Registration District ... ... | 54,123 | 3,003,711 | 1 | 1 | 6 | ... | 2 | 8 | ... | 54 | 5 | 4 | 71 | 10 | 18 | 54 | ... | 4 | 86 | 167 |
| 7 | Aden... ... ... | 1,160 | 44,079 | ... | ... | ... | ... | ... | 2 | ... | ... | ... | ... | 2 | ... | 1 | ... | ... | ... | 1 | 3 |
| | Total for 1895-96... | 163,146 | 22,701,942 | 5 | 2 | 40 | 2 | 16 | 49 | 2 | 305 | 34 | 78 | 468 | 51 | 65 | 306 | 1 | 88 | 511 | 1,044 |
| | Total for 1894-95... | 163,146 | 22,701,942 | 5 | 2 | 40 | 2 | 15 | 49 | 2 | 302 | 34 | 78 | 465 | 51 | 64 | 303 | 1 | 87 | 506 | 1,035 |

Increase or decrease in strength.

5. There is an addition of one clerk entertained by the Kolhápur State in the Southern Registration District. Under Local Fund Establishment there is an increase of 3 vaccinators, all in the Western Registration District, entertained for the Dhulia and Chálisgaon, Sindkhed and Sháháda and Nándurbár Tálukas of the Khándesh Collectorate, the tálukas being too large for one vaccinator to work. In peons there is an increase of 5, of which 3 are entertained by the Local Fund in the Western Registration District, 1 by the Athni and Gokák Municipality in the Southern Registration District, and 1 by the Kolhápur State. Thus in the entire establishment there has been an increase of 1 clerk, 3 vaccinators and 5 peons.

Primary vaccination.

6. The next table shows the number of persons primarily vaccinated, as also the increase or decrease for each of the last ten years, together with the success among them :—

| Primarily vaccinated. | Year ending 31st March. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1887. | 1888. | 1889. | 1890. | 1891. | 1892. | 1893. | 1894. | *1895. | 1896. |
| Persons ... ... ... ... | 855,972 | 879,755 | 896,394 | 900,232 | 885,260 | 935,099 | 924,165 | 905,870 | 712,356 | 732,648 |
| Increase ... ... ... ... | 1,585 | 23,783 | 16,639 | 3,838 | ... | 49,839 | ... | ... | ... | 20,292 |
| Decrease ... ... ... ... | ... | ... | ... | ... | 14,972 | ... | 10,934 | 18,295 | ... | ... |
| Successful cases ... ... ... | 817,386 | 839,263 | 851,718 | 854,182 | 841,913 | 889,290 | 873,919 | 852,706 | 665,883 | 683,044 |
| Percentage of success ... ... | 95·49 | 95·40 | 95·02 | 94·88 | 95·10 | 94·99 | 94·56 | 94·13 | 93·48 | 93·23 |

*From 1895, the vaccination statistics of the Baroda, Cutch, Káthiáwár, Pálanpur, and Pdar States have been excluded and shown separately—*vide* Government Resolutions in the General Department, Nos. 2803 and 4762, dated respectively 27th July and 18th December 1894.

It will be seen that during 1895-96 there were 732,648 children primarily vaccinated against 712,356 in the preceding year, showing an increase of 20,292. Out of 732,648 children primarily vaccinated, 683,044 or 93·23 per cent. were successfully vaccinated, being 0·25 per cent. less than in 1894-95.

Revaccination.

7. The number of persons revaccinated and the success among them for the last ten years are given below :—

| Revaccinated. | Year ending 31st March. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1887. | 1888. | 1889. | 1890. | 1891. | 1892. | 1893. | 1894. | 1895. | 1896. |
| Persons revaccinated ... ... | 47,938 | 49,790 | 54,700 | 58,470 | 46,487 | 62,966 | 62,593 | 68,541 | 61,170 | 78,156 |
| Do. successfully ... ... | 30,945 | 32,443 | 33,541 | 36,346 | 28,459 | 39,006 | 36,770 | 40,640 | 35,625 | 45,238 |
| Percentage of success ... ... | 64·55 | 65·16 | 61·32 | 62·16 | 61·23 | 61·95 | 58·74 | 59·29 | 58·24 | 57·88 |

During the year under report 78,156 persons were revaccinated against 61,170 in the preceding year. The number of successful cases was 45,238 or 57·88 per cent. against 58·24 per cent. last year.

Total operations.

8. The subjoined table shows the total number of persons primarily vaccinated and revaccinated taken together, as also the number of successful cases during each of the last ten years :—

| Total vaccinated. | Year ending 31st March. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1887. | 1888. | 1889. | 1890. | 1891. | 1892. | 1893. | 1894. | 1895. | 1896. |
| Persons operated on ... ... | 903,910 | 929,545 | 951,094 | 958,702 | 931,747 | 998,065 | 986,758 | 974,411 | 773,526 | 810,804 |
| Do. successfully ... ... | 848,331 | 871,706 | 885,259 | 890,528 | 870,372 | 927,296 | 910,689 | 893,346 | 701,508 | 728,282 |
| Percentage of success ... ... | 93·85 | 93·78 | 93·08 | 92·89 | 93·41 | 92·91 | 92·29 | 91·68 | 90·69 | 89·82 |

Work amongst the Civil and Military population.

9. The total number of persons operated on was 810,804; and of these 728,282 or 89·82 per cent. were successful. In 1894-95 the respective figures were 773,526 and 701,508 or 90·69 per cent. The details of the total number of persons operated on for the last two years by districts and circles of vaccination, together with increase or decrease, are shown in the following table, which contrasts the work amongst the Civil and Military population during the year under report with that for 1894-95 :—

| District or Circle. | Persons primarily vaccinated. | | | | Persons revaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1894-95. | 1895-96. | Increase. | Decrease. | 1894-95. | 1895-96. | Increase. | Decrease. | 1894-95. | 1895-96. | Increase. | Decrease. |
| Western Registration District. | 112,632 | 115,606 | 2,974 2·57 | ... | 6,796 | 7,431 | 635 8·54 | ... | 119,428 | 123,037 | 3,609 2·93 | ... |
| Presidency Circle ... ... | 18,107 | 19,027 | 920 5·08 | ... | 2,148 | 9,106 | 6,958 323·93 | ... | 20,255 | 28,133 | 7,878 38·89 | ... |
| Central Registration District... | 191,656 | 184,763 | ... | 6,893 3·59 | 4,996 | 5,102 | 10( 2·3) | ... | 196,652 | 189,865 | ... | 6,787 3·45 |
| Southern do. ... | 165,817 | 167,209 | 1,39? 0·84 | ... | 25,106 | 26,405 | 1,299 5·17 | ... | 190,923 | 193,614 | 2,691 1·41 | ... |
| Gujarát do. ... | 130,048 | 139,657 | 9,609 7·38 | ... | 4,645 | 5,671 | 1,026 22·09 | ... | 134,693 | 145,328 | 10,635 7·89 | ... |
| Sind do. ... | 89,006 | 99,190 | 10,184 11·44 | ... | 14,983 | 21,387 | 6,405 42·75 | ... | 103,988 | 120,577 | 16,589 15·95 | ... |
| Total ... | 707,266 | 725,452 | 18,186 2·57 | ... | 58,673 | 75,102 | 16,429 28·00 | ... | 765,939 | 800,554 | 34,615 4·52 | ... |
| Aden, Muskat, Bushire and Shaikh Othmán ... ... | 2,404 | 3,421 | 1,017 42·30 | ... | 134 | 93 | ... | 41 30·60 | 2,538 | 3,514 | 976 38·46 | ... |
| British Army ... ... ... | 171 | 214 | 43 25·13 | ... | 609 | 661 | 52 8·54 | ... | 780 | 875 | 95 12·18 | ... |
| Native Army ... ... ... | 2,515 | 3,561 | 1,046 41·59 | ... | 1,754 | 2,300 | 546 31·13 | ... | 4,269 | 5,861 | 1,592 37·29 | ... |
| Total ... | 2,686 | 3,775 | 1,089 40·54 | ... | 2,363 | 2,961 | 598 25·31 | ... | 5,049 | 6,736 | 1,687 33·41 | ... |
| **ABSTRACT.** | | | | | | | | | | | | |
| Itinerant ... ... ... ... | 708,357 | 727,935 | 19,578 2·76 | ... | 58,572 | 74,672 | 16·100 27·42 | ... | 766,929 | 802,607 | 35,678 4·65 | ... |
| Dispensary ... ... ... | 1,813 | 938 | ... | 875 | 235 | 523 | 288 | ... | 1,548 | 1,461 | ... | 87 |
| Army ... ... ... ... | 2,686 | 3,775 | 1,089 | ... | 2,363 | 2,961 | 598 | ... | 5,049 | 6,736 | 1,687 | ... |
| Grand Total ... | 712,856 | 732,648 | 20,292 2·85 | ... | 61,170 | 78,156 | 16,986 27·77 | ... | 773,526 | 810,804 | 37,278 4·82 | ... |

Increase or decrease in vaccination work.

10. There is a net increase of 20,292 or 2·85 per cent. in primary vaccination and 16,986 or 27·77 per cent. in revaccination or a total increase of 37,278 or 4·82 per cent. as compared with last year.

11. In primary vaccination a considerable decrease is shown in the Central Registration District and a slight decrease under Dispensaries. In all other Districts there is an increase under this head.

12. In revaccination the only decrease is shown against Aden Circle.

13. The total increase is spread over all Districts and Circles in the Presidency except the Central Registration District and Dispensaries.

Causes of decrease.

14. The decrease under primary vaccination in the Central Registration District is thus accounted for by Dr. Street, the Deputy Sanitary Commissioner of the District :—

"It is found very difficult to keep up the number of primary vaccinations each year. In many parts there is great difficulty in obtaining the usual number of children owing to the fact that the vaccinators have now largely to rely on children under one year of age for their subjects for operation, a very large proportion of children operated on being now of that age, and that the number of unvaccinated children between one and six years of age from which they formerly used to draw a large number of their subjects is now very considerably reduced. Formerly there were as a rule plenty of unprotected children in most villages, and vaccinators had little difficulty in keeping up their number; now in many instances they have great difficulty in obtaining the usual number of children and in some instances visit some of their villages three times in a year in order if possible to do so. During recent years by the greater efficiency with which work has been done, by animal vaccination, by overcoming opposition, and by the most constant supervision, numbers have been kept up, and a large amount of work done, and as a rule, large increases obtained, but the surplus of unprotected children, which were reached by these means has become almost exhausted and we have now to rely on the number of children born during the preceding twelve months or so, and the number of these which may be available for operation when the vaccinator visits a village, and the latter is greatly

influenced by healthy or unhealthy years and the prevalence or absence of sickness at the time of the vaccinator's visit, also of course by the birth rate, which in some parts is greatly affected by the absence of the residents, sometimes both husband and wife and sometimes only the man, who go to Bombay or elsewhere for work."

The Deputy Sanitary Commissioner also states, besides the above reasons for a decrease in primary operations in his division, that there is still some opposition to vaccination; that in Ratnágiri, besides the usual exodus of the people in search of work, more vaccinators are required, and that sickness amongst children and vaccinators all tended to make the decrease.

The decrease under the total operations amongst dispensaries was due to the transfer of vaccination work from Medical Officers in charge Dharangaon of the Western and Sháhápur and Terdal of the Southern Registration Districts to táluka vaccinators in those Districts.

Infants successfully vaccinated as compared with available number; births minus deaths.

15. The following table shows the number of infants successfully vaccinated in the Presidency, *exclusive of Native States*. The birth and death statistics are taken for the calendar year, as usual, in calculating the number available for vaccination :—

| No. | Collectorates. | Births returned as having been registered. | Deaths registered among children under one year. | Children available for vaccination. | Children under one year vaccinated successfully. | Children remained to be vaccinated under one year. | Percentage of infants protected to infants available. |
|---|---|---|---|---|---|---|---|
| 1 | Khándesh ... | 66,676 | 13,492 | 53,184 | 31,362 | 21,822 | 58·97 |
| 2 | Násik ... ... | 36,805 | 8,099 | 28,706 | 19,697 | 9,009 | 68·71 |
| 3 | Thána ... ... | 23,874 | 3,830 | 20,044 | 13,679 | 6,365 | 68·24 |
| 4 | Bombay City ... | 15,371 | 6,587 | 8,784 | 14,401 | ... | 163·94 |
| 5 | Kolába ... ... | 18,513 | 2,869 | 15,644 | 12,713 | 2,931 | 81·27 |
| 6 | Ahmednagar ... | 42,309 | 9,458 | 32,851 | 26,012 | 6,839 | 79·18 |
| 7 | Poona ... ... | 40,594 | 7,975 | 32,619 | 25,533 | 7,086 | 78·28 |
| 8 | Sholápur... ... | 31,782 | 6,203 | 25,579 | 21,663 | 3,916 | 84·69 |
| 9 | Sátára ... ... | 49,678 | 9,677 | 40,001 | 35,900 | 4,101 | 89·75 |
| 10 | Ratnágiri ... | 33,169 | 3,282 | 29,887 | 20,798 | 9,089 | 69·59 |
| 11 | Belgaum... ... | 42,063 | 5,496 | 36,567 | 27,415 | 9,152 | 74·98 |
| 12 | Dhárwár... ... | 45,674 | 6,629 | 39,045 | 25,538 | 13,507 | 65·40 |
| 13 | Bijápur ... ... | 32,835 | 4,400 | 28,435 | 22,972 | 5,463 | 80·78 |
| 14 | Kánara ... ... | 14,321 | 2,347 | 11,974 | 5,592 | 6,382 | 46·70 |
| 15 | Surat ... ... | 25,035 | 4,277 | 20,758 | 14,808 | 5,950 | 71·33 |
| 16 | Broach ... ... | 12,931 | 2,505 | 10,426 | 8,371 | 2,055 | 80·29 |
| 17 | Kaira ... ... | 30,098 | 4,799 | 25,299 | 21,599 | 3,700 | 85·38 |
| 18 | Panch Mahálś ... | 11,379 | 1,265 | 10,114 | 9,637 | 477 | 95·29 |
| 19 | Ahmedabad ... | 29,594 | 4,871 | 24,723 | 24,993 | ... | 101·10 |
| 20 | Karáchi ... ... | 15,593 | 3,100 | 12,493 | 11,843 | 650 | 94·78 |
| 21 | Hyderabad ... | 16,780 | 2,516 | 14,264 | 13,905 | 359 | 97·53 |
| 22 | Thar and Párkar. | 8,905 | 1,399 | 7,506 | 6,413 | 1,093 | 85·43 |
| 23 | Shikárpur ... | 25,851 | 4,162 | 21,689 | 24,596 | ... | 113·40 |
| 24 | Upper Sind Frontier ... ... | 4,474 | 845 | 3,629 | 3,169 | 460 | 87·31 |
| | Total. 1895-96 | 674,304 | 120,083 | 554,221 | 442,713 | 111,508 | 79·88 |
| | Total. 1894-95 | 660,268 | 122,644 | 537,624 | 439,743 | 97,881 | 81·79 |

From the foregoing table it will be observed that in 21 Districts out of 24, the successfully vaccinated fell short of the total registered births minus deaths amongst those under one year old, and in the remaining 3 Districts the successful operations outnumbered the available children. These three Districts are : Bombay City (5,617), Shikárpur (2,907) and Ahmedabad (270). In Bombay City the excess of infants vaccinated is probably in part due to infants brought into the city by parents coming to seek work; but it has also to be borne in mind

that the registered birth-rate of the city is a very low one. In Shikárpur also the registered rural birth-rate is low. The total shows that out of 554,221 infants available for vaccination under one year, 442,713 or 79·88 per cent. were protected and 111,508 or 20·12 per cent. remained unprotected.

Particulars of vaccine operations.

16. The following table specifies by Districts and Circles, caste, age, sex, and result in primary vaccination, sex and result in re-vaccination, and total operations, and their totals are contrasted with those in 1894-95 :—

| Districts and Circles. | Persons primarily vaccinated. | | | | | | | | Total Number of Persons operated on. P = Primary Vaccinations. R = Revaccinations. | | | Results. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Caste. | | | | | Age N = Number. S = Successful. | | | Sex. | | | | | | |
| | Christians. | Hindus. | Musalmans. | Pársis. | Other Castes. | Under 1 year. | Between 1 and 6 years. | All other ages. | Males. | Females. | Total. | Successful. | Unsuccessful. | Unknown. | Total. |
| Western Registration District. | 917 | 106,619 | 5,118 | 123 | 2,829 | N. 86,719 | 27,334 | 1,553 | P. 57,806 | 57,800 | 115,606 | 107,916 | 2,134 | 5,739 | 115,789 |
| | | | | | | S. 81,070 | 25,411 | 1,435 | R. 4,264 | 3,167 | 7,431 | 4,034 | 2,262 | 1,136 | 7,432 |
| | | | | | | | | | 62,070 | 60,967 | 123,037 | 111,950 | 4,396 | 6,875 | 123,221 |
| Presidency Circle | 1,455 | 10,210 | 4,007 | 1,382 | 1,973 | N. 14,994 | 3,129 | 904 | P. 9,713 | 9,314 | 19,027 | 17,764 | 270 | 1,073 | 19,107 |
| | | | | | | S. 14,404 | 2,857 | 503 | R. 7,279 | 1,827 | 9,106 | 2,790 | 994 | 5,322 | 9,106 |
| | | | | | | | | | 16,992 | 11,141 | 28,133 | 20,554 | 1,264 | 6,395 | 28,213 |
| Central Registration District. | 1,004 | 152,300 | 8,900 | 107 | 22,452 | N. 154,123 | 29,425 | 1,215 | P. 93,653 | 91,110 | 184,763 | 169,472 | 1,677 | 13,717 | 184,866 |
| | | | | | | S. 141,849 | 26,726 | 897 | R. 4,201 | 901 | 5,102 | 2,751 | 857 | 1,494 | 5,102 |
| | | | | | | | | | 97,854 | 92,011 | 189,865 | 172,223 | 2,534 | 15,211 | 189,968 |
| Southern Registration District. | 1,092 | 140,330 | 14,928 | 5 | 10,854 | N. 127,609 | 34,503 | 5,097 | P. 85,136 | 82,073 | 167,209 | 155,403 | 2,240 | 9,821 | 167,464 |
| | | | | | | S. 119,359 | 31,872 | 4,172 | R. 21,616 | 4,789 | 26,405 | 17,283 | 3,054 | 6,068 | 26,405 |
| | | | | | | | | | 106,752 | 86,862 | 193,614 | 172,686 | 5,294 | 15,889 | 193,869 |
| Gujarat Registration District. | 139 | 118,696 | 10,687 | 412 | 9,723 | N. 109,107 | 29,387 | 1,163 | P. 71,961 | 67,696 | 139,657 | 135,900 | 1,787 | 2,252 | 139,939 |
| | | | | | | S. 106,196 | 28,589 | 1,115 | R. 4,686 | 985 | 5,671 | 3,369 | 995 | 1,311 | 5,675 |
| | | | | | | | | | 76,647 | 68,681 | 145,328 | 139,269 | 2,782 | 3,563 | 145,614 |
| Sind Registration District. | 198 | 18,365 | 72,073 | 58 | 8,496 | N. 68,108 | 28,526 | 2,556 | P. 53,038 | 46,152 | 99,190 | 90,962 | 1,574 | 6,975 | 99,511 |
| | | | | | | S. 63,056 | 25,751 | 2,155 | R. 13,705 | 7,682 | 21,387 | 13,170 | 3,090 | 5,143 | 21,403 |
| | | | | | | | | | 66,743 | 53,834 | 120,577 | 104,132 | 4,664 | 12,118 | 120,914 |
| Aden | 29 | 189 | 2,962 | 5 | 236 | N. 465 | 701 | 2,255 | P. 2,511 | 910 | 3,421 | 2,278 | 111 | 1,043 | 3,432 |
| | | | | | | S. 390 | 531 | 1,357 | R. 90 | 3 | 93 | 80 | 9 | 4 | 93 |
| | | | | | | | | | 2,601 | 913 | 3,514 | 2,358 | 120 | 1,047 | 3,525 |
| British Army | 183 | 33 | 10 | .. | 8 | N. 182 | 30 | 2 | 111 | 103 | 214 | 144 | 49 | 21 | 214 |
| | | | | | | S. 118 | 25 | 1 | 573 | 88 | 661 | 391 | 242 | 22 | 661 |
| | | | | | | | | | 684 | 191 | 875 | 535 | 297 | 43 | 875 |
| Native Army | 221 | 1,921 | 1,258 | 39 | 122 | N. 2,233 | 548 | 780 | P. 2,268 | 1,293 | 3,561 | 3,205 | 357 | 17 | 3,579 |
| | | | | | | S. 2,153 | 517 | 535 | R. 2,207 | 93 | 2,300 | 1,370 | 925 | 5 | 2,300 |
| | | | | | | | | | 4,475 | 1,386 | 5,861 | 4,575 | 1,282 | 22 | 5,879 |
| Total for the Presidency for 1895-96 | 5,218 | 548,663 | 119,943 | 2,131 | 56,692 | N. 563,540 | 153,583 | 15,525 | 376,197 | 356,451 | 732,648 | 683,044 | 10,199 | 40,658 | 733,901 |
| | | | | | | S. 528,595 | 142,279 | 12,170 | 58,621 | 19,535 | 78,156 | 45,238 | 12,434 | 20,505 | 78,177 |
| | | | | | | | | | 434,818 | 375,986 | 810,804 | 728,282 | 22,633 | 61,163 | 812,078 |
| Do. for 1894-95. | 4,757 | 542,361 | 111,714 | 1,971 | 51,553 | N. 554,521 | 144,775 | 13,060 | 365,421 | 346,935 | 712,356 | 665,883 | 10,175 | 37,587 | 713,645 |
| | | | | | | S. 521,648 | 133,659 | 10,576 | 44,969 | 16,201 | 61,170 | 35,625 | 10,993 | 14,831 | 61,349 |
| | | | | | | | | | 410,390 | 363,136 | 773,526 | 701,508 | 21,178 | 52,418 | 774,995 |

| Excess of Operations over Persons. | Ratio per 100. | | | | | | | | | | | | | | | Excess of Operations over Persons. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Persons primarily vaccinated. | | | | | | | | Total Number of Persons operated on. | | | Results. | | | | |
| | Caste. | | | | | Age. | | | Sex. | | | | | | | |
| | Christians. | Hindus. | Musalmans. | Pársis. | Other Castes. | Under 1 year. | Between 1 and 6 years. | All other ages. | Males. | Females. | Total. | Successful. | Unsuccessful. | Unknown. | Total. | |
| 183 | 0·79 | 92·23 | 4·43 | 0·10 | 2·45 | N. 75·01 | 23·64 | 1·34 | P. 50· | 50· | 100 | 93·35 | 1·85 | 4·96 | 100·16 | 0·16 |
| 1 | | | | | | S. 70·12 | 21·98 | 1·24 | R. 57·38 | 42·62 | 100 | 54·29 | 30·44 | 15·29 | 100·01 | 0·01 |
| 184 | .. | .. | .. | .. | .. | .... | .. | .. | 50·45 | 49·55 | 100 | 90·99 | 3·57 | 5·59 | 100·15 | 0·15 |
| 80 | 7.64 | 53·65 | 21·07 | 7·27 | 10·37 | N. 78·80 | 16·44 | 4·75 | 51·05 | 48·95 | 100 | 93·37 | 1·41 | 5·65 | 100·42 | 0·42 |
| .. | | | | | | S. 75·71 | 15·02 | 2·64 | 79·55 | 20·45 | 100 | 30·07 | 10·25 | 59·68 | 100· | ... |
| 80 | .. | .. | .. | .. | .. | .... | .. | .. | 60·13 | 39·86 | 100 | 73·17 | 42·31 | 22·89 | 100·29 | 0·29 |
| 103 | 0·54 | 82·43 | 4·82 | 0·06 | 12·15 | N. 83·43 | 15·92 | 0·65 | P. 50·68 | 49·32 | 100 | 91·72 | 0·91 | 7·42 | 100·06 | 0·06 |
| .. | | | | | | S. 83·70 | 15·77 | 0·53 | R. 82·34 | 17·66 | 100 | 53·92 | 16·80 | 29·28 | 100· | 0·00 |
| 103 | .. | .. | .. | .. | .. | .... | .. | .. | 51·54 | 48·46 | 100 | 90·66 | 1·33 | 8·01 | 100·05 | 0·05 |
| 255 | 0·65 | 83·92 | 8·92 | 0.03 | 6·49 | N. 76·31 | 20·63 | 3·05 | 50·91 | 49·08 | 100 | 92·94 | 1·34 | 5·87 | 100·15 | 0·15 |
| ... | | | | | | S. 71·38 | 19·06 | 2·49 | 81·86 | 18·13 | 100 | 65·45 | 11·56 | 22·98 | 100 | .. |
| 255 | .. | .. | .. | .. | .. | .... | .. | .. | 55·14 | 44·86 | 100 | 89·19 | 2·73 | 8·21 | 100·13 | 0·13 |
| 282 | 0·10 | 84·99 | 7·65 | 0·30 | 6·96 | N. 78·13 | 21·04 | 0·83 | 51·52 | 48·48 | 100 | 97·31 | 1·28 | 1·61 | 100·20 | 0·20 |
| 4 | | | | | | S. 76·04 | 20·47 | 0·80 | 82·63 | 17·37 | 100 | 59·41 | 17·54 | 23·12 | 100·07 | 0·07 |
| 286 | .. | .. | .. | .. | .. | .... | .. | ... | 52·74 | 47·26 | 100 | 95·83 | 1·91 | 2·45 | 100·19 | 0·19 |
| 321 | 0·20 | 18·53 | 72·66 | 0·06 | 8·57 | N. 68·66 | 28·76 | 2·58 | P. 53·47 | 46·53 | 100 | 91·41 | 1·58 | 7·01 | 100·32 | 0·32 |
| 16 | | | | | | S. 63·57 | 25·96 | 2·17 | R. 64·08 | 35·78 | 100 | 61·57 | 14·45 | 24·05 | 100·07 | 0·07 |
| 337 | .. | .. | .. | .. | .. | .... | .. | .. | 55·36 | 44·65 | 100 | 86·36 | 3·87 | 10·05 | 100·28 | 0·28 |
| 11 | 0·85 | 5·52 | 86·58 | 0·14 | 6·31 | N. 13·59 | 20·49 | 60·09 | 66·99 | 26·01 | 100 | 60·75 | 32·44 | 30·49 | 100·32 | 0·32 |
| .. | | | | | | S. 11·40 | 15·51 | 39·60 | 86·77 | 3·23 | 100 | 86·02 | 9·68 | 4·31 | 100 | 0·00 |
| 11 | .. | .. | .. | .. | .. | .... | .. | .. | 74·02 | 25·98 | 100 | 67·10 | 3·41 | 29·79 | 100·31 | 0·31 |
| .. | 76·17 | 15·42 | 4·67 | .. | 3·74 | N. 85·05 | 14·02 | 0·93 | 51·87 | 48·13 | 100 | 67·29 | 22·90 | 9·81 | 100 | ... |
| .. | | | | | | S. 55·14 | 11·68 | 0·47 | 86·68 | 13·32 | 100 | 59·15 | 37·52 | 3·33 | 100 | ... |
| .. | .. | .. | .. | .. | .. | .... | .. | .. | 78·17 | 21·83 | 100 | 61·15 | 33·94 | 4·91 | 100 | .. |
| 18 | 6·20 | 53·95 | 35·32 | 1·10 | 3·43 | N. 62·71 | 15·39 | 21·90 | 63·69 | 36·31 | 100 | 90·00 | 10·03 | 0·48 | 100·51 | 0·51 |
| .. | | | | | | S. 60·49 | 14·52 | 15·02 | 95·96 | 4·04 | 100 | 59·56 | 40·22 | 0·22 | 100 | 0·00 |
| 18 | .. | .. | ... | ... | .. | .... | .. | .. | 76·35 | 23·65 | 100 | 78·06 | 21·87 | 0·38 | 100·31 | 0·31 |
| 1,253 | 0·71 | 74·89 | 16·37 | 0·29 | 7·74 | N. 76·92 | 20·96 | 2·12 | P. 51·35 | 48·65 | 100 | 93·23 | 13·92 | 5·55 | 100·17 | 0·17 |
| 21 | | | | | | S. 72·15 | 19·42 | 1·66 | R. 75·01 | 24·99 | 100 | 57·88 | 15·91 | 26·23 | 100·03 | 0·03 |
| 1,274 | .. | .. | .. | .. | .. | .... | .. | .. | 53·63 | 46·37 | 100 | 89·82 | 2·79 | 7·54 | 100·16 | 0·16 |
| 1,269 | 0·67 | 76·13 | 15·69 | 0·27 | 7·24 | N. 77·85 | 20·33 | 1·82 | P. 51·30 | 48·70 | 100 | 93·48 | 1·43 | 5·28 | 100·19 | 0·19 |
| 179 | | | | | | S. 73·22 | 18·80 | 1·49 | R. 73·51 | 26·49 | 100 | 58·24 | 17·97 | 24·25 | 100·29 | 0·29 |
| 1,468 | .. | .. | .. | .. | .. | .... | .. | ... | 53·05 | 46·95 | 100 | 90·67 | 2·74 | 6·78 | 100·19 | 0·19 |

17. During the year there were primarily vaccinated 5,218 Christians, 548,663 Hindus, 119,943 Musalmáns, 2,131 Párs and 56,693 persons of other castes. The respective figures in the preceding year were 4,757, 542,361, 111,714, 1,971 and 51,553.

Caste or race.

18. The age details are compiled for three periods, viz., under 1 year, between 1 and 6 years, and above 6 years. The numbers under each period primarily vaccinated were 563,540, 153,583 and 15,525 against 554,521, 144,775 and 13,060 during the previous year. The number of infants successfully vaccinated was 528,595; of children between 1 and 6 years 142,279 and of persons of other ages 12,170. Thus out of every 100 persons primarily vaccinated 76·92 were infants, of whom 72·15 were successfully vaccinated.

Age.

19. There were 376,197 males and 356,451 females primarily vaccinated; the re-vaccinated were respectively 58,621 and 19,535 and the totals of persons operated on were 434,818 males and 375,986 females. In primary vaccination the sex percentages are respectively 51·35 and 48·65 against 51·30 and 48·70 in the previous year. In revaccination they were respectively 75·01 and 24·99 against 73·51 and 26·49, and in total operations 53·63 and 46·37 against 53·05 and 46·95 last year.

Sex.

20. The following table shows, by Districts and Circles, the percentage of success in primary and revaccination, contrasted with those for the previous year :—

Percentage of success, including "unknown" cases.

| No. | Districts and Circles. | Percentage of success of primary vaccination. | | Percentage of success of revaccination. | |
|---|---|---|---|---|---|
| | | 1894-95. | 1895-96. | 1894-95. | 1895-96. |
| 1 | Western Registration District ... | 93·85 | 93·35 | 56·47 | 54·29 |
| 2 | Presidency Circle ... ... | 94·47 | 93·37 | 40·79 | 30·07 |
| 3 | Central Registration District ... | 92·22 | 91·72 | 53·88 | 53·92 |
| 4 | Southern do. ... | 92·42 | 92·94 | 61·28 | 65·45 |
| 5 | Gujarát do. ... | 97·31 | 97·31 | 61·32 | 59·41 |
| 6 | Sind do. ... | 91·45 | 91·71 | 56·36 | 61·58 |
| 7 | Aden, Bushire, Muskat and Shaik Othman ... ... ... | 69·26 | 66·59 | 65·67 | 86·02 |
| 8 | British Army ... ... | 64·16 | 67·29 | 50·97 | 59·15 |
| 9 | Native do. ... ... | 86·68 | 90·00 | 59·41 | 59·56 |
| | Average for the Presidency ... | 93·48 | 93·23 | 58·24 | 57·88 |

In the total for the Presidency there was a slight decrease in the percentage of success in primary vaccination, being 0·25 per cent. less than last year, whilst in revaccination it was 0·36 per cent.

21. The following table shows the percentages of success, both in primary and revaccination, excluding "unknown" cases, during 1895-96, contrasted with those for the preceding year, as desired by Government in paragraph 4 of their Resolution in the General Department, No. 2980 of 24th August 1893 :—

Percentage of success, excluding "unknown" cases.

| No. | Districts and Circles. | Percentage of success of primary vaccination. | | Percentage of success of revaccination. | |
|---|---|---|---|---|---|
| | | 1894-95. | 1895-96. | 1894-95. | 1895-96. |
| 1 | Western Registration District ... | 98·04 | 98·06 | 64·03 | 64·07 |
| 2 | Presidency Circle ... ... | 98·47 | 98·50 | 76·84 | 73·73 |
| 3 | Central Registration District ... | 98·94 | 99·02 | 73·23 | 76·25 |
| 4 | Southern do. ... | 98·59 | 98·58 | 84·40 | 84·98 |
| 5 | Gujarát do. ... | 98·68 | 98·70 | 76·60 | 77·20 |
| 6 | Sind do. ... | 98·26 | 98·30 | 76·59 | 81·00 |
| 7 | Aden, Bushire, Muskat and Shaik Othmán ... ... ... | 90·10 | 95·35 | 93·62 | 89·89 |
| 8 | British Army ... ... | 68·52 | 74·61 | 51·23 | 61·19 |
| 9 | Native do. ... ... | 87·10 | 89·98 | 59·44 | 59·74 |
| | Average for the Presidency ... | 98·50 | 98·53 | 76·59 | 78·44 |

22. The subjoined table gives the rate of primary successful vaccination of children under one year and the total successful primary vaccinations per mille of population of each Collectorate and Native State (the vaccination work of which is under the supervision of the Sanitary Department) as desired by Government in paragraph 4 of their Resolution in the General Department, No. 4748 of 4th December 1890 :—

Rate per mille of population in successful vaccinations.

| Districts. | Number of successful primary vaccinations of children less than one year old per mille of population. | Total number of successful primary vaccinations per mille of population. |
|---|---|---|
| **British Districts.** | | |
| *Western Registration District.* | | |
| Khándesh ... ... ... ... ... | 21·47 | 27·76 |
| Násik ... ... ... ... ... | 23·35 | 29·56 |
| Thána ... ... ... ... ... | 16·68 | 25·53 |
| Kolába ... ... ... ... ... | 21·37 | 27·43 |
| *Presidency Circle.* | | |
| Bombay ... ... ... ... ... | 17·52 | 21·61 |
| *Central Registration District.* | | |
| Ahmednagar ... ... ... ... | 29·26 | 33·64 |
| Poona ... ... ... ... ... | 23·91 | 30·19 |
| Sholápur ... ... ... ... ... | 28·85 | 33·44 |
| Sátára ... ... ... ... ... | 29·28 | 32·53 |
| Ratnágiri ... ... ... ... ... | 18·80 | 24·32 |
| *Southern Registration District.* | | |
| Belgaum ... ... ... ... ... | 27·06 | 33·74 |
| Dhárwár ... ... ... ... ... | 24·29 | 30·93 |
| Bijápur ... ... ... ... ... | 28·85 | 34·88 |
| Kánara ... ... ... ... ... | 12·53 | 28·07 |
| *Gujarát Registration District.* | | |
| Surat ... ... ... ... ... | 22·23 | 31·30 |
| Broach ... ... ... ... ... | 24·51 | 30·31 |
| Kaira ... ... ... ... ... | 24·78 | 29·56 |
| Panch Mahals ... ... ... ... | 30·75 | 36·72 |
| Ahmedabad ... ... ... ... ... | 26·93 | 30·01 |
| *Sind Registration District.* | | |
| Karáchi ... ... ... ... ... | 20·97 | 32·68 |
| Hyderabad ... ... ... ... ... | 15·72 | 25·56 |
| Thar and Párkar ... ... ... ... | 19·29 | 34·18 |
| Shikárpur ... ... ... ... ... | 26·87 | 31·27 |
| Upper Sind Frontier ... ... ... | 18·16 | 27·39 |
| *Native States.* | | |
| States in Western Registration District... | 20·11 | 28·74 |
| Do. Central do. ... | 21·48 | 27·77 |
| Do. Southern do. ... | 22·34 | 29·34 |
| Do. Gujarát do. ... | 21·28 | 31·36 |
| Do. Sind do. ... | 23·72 | 38·84 |

23. The following table shows the number of infants or children under one year protected out of those available for vaccination at the rate of 31 per mille of population, by Districts and Circles, as likwise those that remained unprotected and the percentages of the protected and unprotected:—

Available infants estimated at 31 per mille of population.

| Districts and Circles. | Population according to Census of 1891. | Children under 1 year available for vaccination at 31 per mille of population. | Children under one year vaccinated successfully. | | Children remained to be vaccinated under one year. | |
|---|---|---|---|---|---|---|
| | | | Number. | Per cent protected of available. | Number. | Per cent. |
| Western Registration District ... | 3,898,814 | 120,863 | 81,070 | 67·08 | 39,793 | 32·92 |
| Presidency Circle ... ... | 821,764 | 25,475 | 14,404 | 57 33 | 11,071 | 42·67 |
| Central Registration District ... | 5,595,079 | 173,447 | 141,849 | 81·78 | 31,598 | 18·22 |
| Southern do. ... | 4,956,428 | 153,649 | 119,359 | 77·68 | 34,290 | 22·32 |
| Gujarát do. ... | 4,382,067 | 135,844 | 106,196 | 78·18 | 29,648 | 21·82 |
| Sind do. ... | 3,003,711 | 93,115 | 63,056 | 67·72 | 30,059 | 32·28 |
| Aden, Bushire, &c. ... ... | *44,079 | 1,367 | 390 | 28·53 | 977 | 71·47 |
| British Army ... ... ... | Not available. | ..... | 118 | ... | ..... | ... |
| Native Army ... ... ... | | ..... | 2,153 | ... | ..... | ... |
| Total ... | 22,701,942 | 703,760 | 528,595 | 75·11 | 175,165 | 24·89 |

* For Aden only.

It will be observed from the foregoing table that at the rate of 31 per 1,000 on the total population of 22,701,942 there were 703,760 infants available for vaccination, of which 528,595 were successfully vaccinated. Thus out of every 100 infants available 75·11 were protected and 24·89 passed that age without being protected.

Vaccination by Establishments.

24. The progress of vaccination by different establishments will be seen from the following table:—

| Establishments. | Persons primarily vaccinated. | | | | Persons revaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1894-95. | 1895-96. | Increase. | Decrease. | 1894-95. | 1895-96. | Increase. | Decrease | 1894-95. | 1895-96. | Increase. | Decrease. |
| Municipal Vaccinators. ... | 68,823 | 72,305 | 3,482 | ... | 10,870 | 22,199 | 11,329 | ... | 79,693 | 94,504 | 14,811 | ... |
| Cantonment do. ... | 2,114 | 2,484 | 370 | ... | 422 | 569 | 147 | ... | 2,536 | 3,053 | 517 | ... |
| Local Fund do. ... | 524,306 | 534,077 | 9,771 | ... | 35,846 | 40,337 | 4,491 | ... | 560,152 | 574,414 | 14,262 | ... |
| Native State do. ... | 113,114 | 119,069 | 5,955 | ... | 11,434 | 11,567 | 133 | ... | 124,548 | 130,636 | 6,088 | ... |
| Dispensary ... ... ... | 1,313 | 938 | ... | 375 | 235 | 523 | 288 | ... | 1,548 | 1,461 | ... | 87 |
| British Army ... ... | 171 | 214 | 43 | ... | 609 | 661 | 52 | ... | 780 | 875 | 95 | ... |
| Native Army ... ... | 2,515 | 3,561 | 1,046 | ... | 1,754 | 2,300 | 546 | ... | 4,269 | 5,861 | 1,592 | ... |
| Total ... | 712,356 | 732,648 | 20,292 | ... | 61,170 | 78,156 | 16,986 | ... | 773,526 | 810,804 | 37,278 | ... |

In primary vaccination a decrease is shown under Dispensary. In all other establishments there was an increase. In revaccination there was an increase under all establishments. There was a net increase of 37,278 in total.

Results in vaccine operation by establishments.

25. The results in primary vaccination, revaccination, and total operations as analysed by establishments are as under:—

| Establishments. | Results in Primary Vaccination. | | | | | Results in revaccination. | | | | | Results in Total Operations. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Successful. | Unsuccessful. | Unknown. | Total. | Excess of operations. | Successful. | Unsuccessful. | Unknown. | Total. | Excess of operations. | Successful. | Unsuccessful. | Un. known. | Total. | Excess of operations. |
| Municipal Vaccinators... | 65,980 | 1,189 | 5,334 | 72,503 | 198 | 10,011 | 4,040 | 8,161 | 22,212 | 13 | 75,991 | 5,229 | 13,495 | 94,715 | 211 |
| Cantonment do. ... | 2,370 | 37 | 77 | 2,484 | ... | 330 | 113 | 126 | 569 | ... | 2,700 | 150 | 203 | 3,053 | ... |
| Local Fund do. ... | 497,062 | 6,796 | 30,879 | 534,737 | 660 | 24,904 | 5,312 | 10,129 | 40,345 | 8 | 521,966 | 12,108 | 41,008 | 575,082 | 668 |
| Native States do. ... | 113,407 | 1,720 | 4,306 | 119,433 | 364 | 7,835 | 1,692 | 2,050 | 11,567 | ... | 121,242 | 3,402 | 6,356 | 131,000 | 364 |
| Dispensaries ... ... | 376 | 51 | 24 | 951 | 13 | 397 | 114 | 12 | 523 | ... | 1,273 | 165 | 36 | 1,474 | 13 |
| British Army ... ... | 144 | 49 | 21 | 214 | ... | 391 | 248 | 22 | 661 | ... | 535 | 297 | 43 | 875 | ... |
| Native Army ... ... | 3,205 | 357 | 17 | 3,579 | 18 | 1,370 | 925 | 5 | 2,300 | ... | 4,575 | 1,282 | 22 | 5,879 | 18 |
| Totals... 1895-96 ... | 683,044 | 10,199 | 40,658 | 733,901 | 1,253 | 45,238 | 12,434 | 20,505 | 78,177 | 21 | 728,232 | 22,633 | 61,165 | 812,078 | 1,274 |
| Totals... 1894-95 ... | 665,883 | 10,175 | 37,587 | 713,645 | 1,289 | 35,625 | 10,893 | 14,831 | 61,349 | 179 | 701,508 | 21,068 | 52,418 | 774,994 | 1,468 |

In both kinds of operations the number of successful cases was more than in the preceding year. In primary vaccination the successful cases in all es-

tablishments were 633,044 and unsuccessful were 10,199, whilst in revaccination they were 45,238 and 12,434 respectively. The total successful cases were 728,282 and unsuccessful 22,633. In 61,163 cases the result was unknown, and 1,274 persons were operated on a second time on account of the failure of the first operation.

Percentages of success by establishments.

26. The percentages of successful cases in each kind of operation by establishments are given below :—

| Establishments. | Kind of operations. | |
|---|---|---|
| | Percentage in successful primary vaccination. | Percentage in successful revaccination. |
| Municipal ... ... ... ... ... | 91·25 | 45·10 |
| Cantonment ... ... ... ... ... | 95·41 | 57·99 |
| Local Fund ... ... ... ... ... | 93·07 | 61·74 |
| Native States ... ... ... ... ... | 95·24 | 67·74 |
| Dispensaries ... ... ... ... ... | 92·11 | 75·91 |
| British Amry ... ... ... ... ... | 67·29 | 59·15 |
| Native Army ... ... ... ... ... | 90·00 | 59·56 |
| For the entire Presidency ... | 93·23 | 57·88 |

The highest percentage in primary vaccination was 95·41 under Cantonment establishment and the lowest was 67·29 in the British Army. In revaccination the highest percentage was 75·91 in Dispensaries and the lowest 45·10 under Municipal establishments. In all establishments, as a whole, the percentage was 93·23 in primary and 57·88 under revaccination.

Work of establishments.

27. The work of the different establishments by Districts and Circles is as follows.

Government Vaccinators.

28. There are two Government vaccinators for the Cantonment of Rájkot and Deesa, and their work is supervised by the Medical Officer, Káthiáwár State Agency, and is included in Appendix II—Native States. Besides these two, there are three others under the Station Staff. Surgeons for the Military Stations of Mhow, Neemuch and Nasirabad, paid from "Military Funds," and their work is included under the head of Native Army.

Work of Cantonment Vaccinators.

29. There is one vaccinator for the Cantonment of Poona and one entertained by the Poona Suburban Municipality and Kirkee Cantonment for Kirkee. There is also a joint Municipal and Cantonment vaccinator at Málegaon in the Násik Zilla. Vaccination in the Deoláli Cantonment was performed by the Medical Officer of the Hospital. In the Ahmedabad Cantonment vaccination work was done by the Medical Officer, Sadar Bázár Dispensary, Ahmedabad.

The following table indicates the progress of vaccinations by districts in which the abovenamed Cantonments are situated :—

| Districts. | Persons primarily vaccinated. | | | | Persons revaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1894-95. | 1895-96. | Increase. | Decrease. | 1894-95. | 1895-96. | Increase. | Decrease. | 1894-95. | 1895-96. | Increase. | Decrease. |
| Western Registration Districts. | 148 | 315 | 167 | .. | 13 | 11 | ... | 2 | 161 | 326 | 165 | ... |
| Central do. | 1,931 | 2,144 | 213 | ... | 409 | 558 | 149 | ... | 2,340 | 2,702 | 362 | ... |
| Gujárat do. | 35 | 25 | ... | 10 | ... | ... | ... | ... | 35 | 25 | ... | 10 |
| Total .. | 2,114 | 2,484 | 370 | ... | 422 | 569 | 147 | ... | 2,536 | 3,053 | 517 | ... |

In Cantonments there is an increase of 370 under primary vaccination and 147 under revaccination. The net increase under both kinds of operations is 517.

Work of Municipal vaccinators.

30. The following table gives the progress of vaccination by Districts and Circles under Municipal vaccinators :—

| Districts and Circles. | Persons primarily vaccinated. | | | | Persons revaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1894-95. | 1895-96. | Increase. | Decrease. | 1894-95. | 1895-96. | Increase. | Decrease. | 1894-95. | 1895-96. | Increase. | Decrease. |
| 6 Western Registration District | 5,611 | 5,707 | 96 | ... | 1,494 | 1,749 | 255 | ... | 7,105 | 7,456 | 351 | ... |
| 9 Presidency Circle ... ... | 18,106 | 19,022 | 916 | ... | 2,042 | 8,913 | 6,871 | ... | 20,148 | 27,935 | 7,787 | ... |
| 9 Central Registration District. | 13,185 | 12,461 | ... | 724 | 2,216 | 1,938 | ... | 278 | 15,401 | 14,399 | ... | 1,002 |
| 8 Southern do. ... | 9,745 | 8,972 | ... | 773 | 2,173 | 1,951 | ... | 222 | 11,918 | 10,923 | ... | 995 |
| 7 Gujarát do. ... | 10,967 | 11,649 | 682 | ... | 552 | 1,351 | 799 | ... | 11,519 | 13,000 | 1,481 | ... |
| 8 Sind do. ... | 9,811 | 11,765 | 1,954 | ... | 2,321 | 6,204 | 3,883 | ... | 12,132 | 17,969 | 5,837 | ... |
| 2 Aden Circle ... ... ... | 1,398 | 2,729 | 1,331 | ... | 72 | 93 | 21 | ... | 1,470 | 2,822 | 1,352 | ... |
| Total ... | 68,823 | 72,305 | 3,482 | ... | 10,870 | 22,199 | 11,329 | ... | 79,693 | 94,504 | 14,811 | ... |

In the total of primary vaccination there is an increase of 3,482 and under revaccination 11,329. Taking the two operations together, there was a net increase of 14,811. There are 49 vaccinators, of whom 48 vaccinated primarily 72,305 persons and revaccinated 22,199, of which 65,980 and 10,011 were successful. The unsuccessful and unknown cases were respectively 1,189 and 5,334 under primary vaccination. There were 198 secondary operations under the same head.

Work of Local Fund vaccinators.

31. The following table shows the work of Local Fund vaccinators for each of the five Registration Districts :—

| Districts. | Persons primarily vaccinated. | | | | Persons revaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1894-95. | 1895-96. | Increase. | Decrease. | 1894-95. | 1896-96. | Increase. | Decrease. | 1894-95. | 1895-96. | Increase. | Decrease. |
| 80 Western Registration District. | 102,126 | 104,309 | 2,183 | ... | 4,336 | 4,378 | 42 | ... | 106,462 | 108,687 | 2,225 | ... |
| 80 Central do. ... | 159,253 | 153,382 | ... | 5,871 | 2,196 | 2,431 | 235 | ... | 161,449 | 155,813 | ... | 5,636 |
| 72 Southern do. ... | 106,745 | 106,857 | 112 | ... | 13,457 | 15,314 | 1,857 | ... | 120,202 | 122,171 | 1,969 | ... |
| 48 Gujarat do. ... | 81,452 | 87,658 | 6,206 | ... | 3,295 | 3,191 | ... | 104 | 84,747 | 90,849 | 6,102 | ... |
| 59 Sind do. ... | 74,780 | 81,871 | 7,141 | ... | 12,562 | 15,023 | 2,461 | ... | 87,292 | 96,894 | 9,602 | ... |
| Total ... | 524,306 | 534,077 | 9,771 | ... | 35,846 | 40,337 | 4,491 | ... | 560,152 | 574,414 | 14,262 | ... |

It will be observed that during the year there was a decrease of 5,871 in the Central Registration District under primary vaccination and of 104 in the Gujarát Registration District under revaccination. There was a net increase of 14,262 in the total operations. There were 305 vaccinators and 34 candidate vaccinators, who primarily vaccinated 534,077 and revaccinated 40,337 persons. The number primarily vaccinated successfully was 497,062 and revaccinated successfully was 24,904. Unsuccessful and unknown respectively in primary vaccination amounted to 6,796 and 30,879 and in re-vaccinations 5,312 and 10,129. There were 660 secondary operations and in 8 cases re-vaccination was repeated.

Work of Native State vaccinators.

32. The subjoined table shows the work of Native State vaccinators in five Registration Districts :—

| Districts. | Persons primarily vaccinated. | | | | Persons revaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1894-95. | 1895-96. | Increase. | Decrease. | 1894-95. | 1895-96. | Increase. | Decrease. | 1894-95. | 1895-96. | Increase. | Decrease. |
| 4 Western Registration District. | 4,734 | 5,275 | 541 | ... | 952 | 1,293 | 341 | ... | 5,686 | 6,568 | 882 | ... |
| 12 Central do. ... | 17,287 | 16,776 | ... | 511 | 175 | 175 | ... | ... | 17,462 | 16,951 | ... | 511 |
| 33 Southern do. ... | 49,198 | 51,380 | 2,182 | ... | 9,476 | 9,140 | ... | 336 | 58,674 | 60,520 | 1,846 | ... |
| 25 Gujarát do. ... | 37,430 | 40,084 | 2,654 | ... | 732 | 799 | 67 | ... | 38,162 | 40,883 | 2,721 | ... |
| 4 Sind do. ... | 4,465 | 5,554 | 1,089 | ... | 99 | 160 | 61 | ... | 4,564 | 5,714 | 1,150 | ... |
| Total ... | 113,114 | 119,069 | 5,955 | ... | 11,434 | 11,567 | 133 | ... | 124,548 | 130,636 | 6,088 | ... |

As stated in paragraph 3 of this report, the vaccination statistics of Baroda, Cutch, Káthiáwár, Pálanpur and I'dar have been shown separately in Appendix II. In primary vaccination there is a decrease of 511 in the Native States of the Central Registration District and in revaccination a decrease of 336 in those of the Southern Registration District. There are 78 vaccinators who performed 119,069 primary vaccinations and 11,567 revaccinations, of which 113,407 under primary and 7,835 under revaccinations were successful. The unsuccessful and unknown under primary vaccination numbered 1,720 and 4,306, respectively, and in revaccination 1,682 and 2,050. There were 864 secondary operations, whilst no revaccination was repeated.

Work of Dispensary Officers.

33. Vaccination was carried on in 8 dispensaries during the year under report. The annexed table shows the progress of vaccination in dispensaries by each District and Circle :—

| Districts. | Persons primarily vaccinated. | | | | Persons revaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1894-95. | 1895-96. | Increase. | Decrease. | 1894-95. | 1895-96. | Increase. | Decrease. | 1894-95. | 1895-96. | Increase. | Decrease. |
| Western Registration District. | 13 | ... | ... | 13 | 1 | ... | ... | 1 | 14 | ... | ... | 14 |
| Presidency Circle ... ... | 1 | 5 | 4 | ... | 106 | 193 | 87 | ... | 107 | 198 | 91 | ... |
| Southern Registration District. | 129 | ... | ... | 129 | ... | ... | ... | ... | 129 | ... | ... | 129 |
| Gujarát do. ... | 164 | 241 | 77 | ... | 66 | 330 | 264 | ... | 230 | 571 | 341 | ... |
| Aden. Shaik Othmán ... | 531 | ... | ... | 531 | 62 | ... | ... | 62 | 593 | ... | ... | 593 |
| Aden. Bushire ... ... | 393 | 338 | ... | 55 | ... | ... | ... | ... | 393 | 338 | ... | 55 |
| Aden. Muskat ... ... | 82 | 354 | 272 | ... | ... | ... | ... | ... | 82 | 354 | 272 | ... |
| Total ... | 1,313 | 938 | ... | 375 | 235 | 523 | 288 | ... | 1,548 | 1,461 | ... | 87 |

The vaccination work of Dharangaon Dispensary in the Khándesh Collectorate, and of Sháhápur and Ţerdal in the Sángli State, and Kaira Jail in the Kaira Zilla was discontinued during the year. The work at Shaikh Othmán in Aden is performed by a Municipal vaccinator, and it is therefore included under that head. In primary and revaccinations 933 and 523 were vaccinated, of which 876 and 397 were successful. Unsuccessful and unknown under primary were 51 and 24, and under revaccination 114 and 12.

Work performed in the Army (British and Native).

34. Amongst the European Troops, the number of persons primarily vaccinated was 214, and in 144 cases the operation was successful. The unsuccessful and unknown cases amounted to 49 and 21 respectively. There were 661 cases of revaccination, of which 391 were successful, 248 unsuccessful and 22 unknown. In the Native Army the primarily vaccinated numbered 3,561 and revaccinated 2,300, of which the successful cases were 3,205 and 1,370 respectively. The unsuccessful and unknown cases numbered 357 and 17 and 925 and 5 under each head respectively. There were 18 secondary operations.

The following table shows details of vaccination performed in the British and Native Army :—

| The Army. | Primary Vaccinations. | | | | | | | | | | | | | | | | | Revaccinations. | | | | | | | Percentage of successful cases. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sex. | | Caste. | | | | | Age. | | | Results. | | | | | | | Sex. | | Result. | | | | | | |
| | | | | | | | | | | | Successful. | | | Unsuccessful and doubtful. | Unknown. | Total. | Excess of operations over persons. | | | Successful. | Unsuccessful and doubtful. | Unknown. | Total. | Excess of operations over persons. | In primary vaccination. | In revaccination. |
| | Males. | Females. | Christians. | Hindus. | Musalmans. | Parsis. | Other castes. | Under 1 year. | Above 1 and under 6 years. | Above 6 years. | Under 1 year. | Above 1 and under 6 years. | Total of all ages. | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| British Army .. | 111 | 103 | 163 | 33 | 10 | .. | 8 | 182 | 30 | 2 | 118 | 25 | 144 | 49 | 21 | 214 | .. | 573 | 88 | 391 | 248 | 22 | 661 | .. | 67·29 | 59·15 |
| Native Army ... | 2,268 | 1,293 | 221 | 1,921 | 1,258 | 39 | 122 | 2,233 | 548 | 780 | 2,153 | 517 | 3,205 | 357 | 17 | 3,579 | 18 | 2,207 | 93 | 1,370 | 925 | 5 | 2,300 | .. | 89·55 | 59·56 |
| Total .. | 2,379 | 1,396 | 384 | 1,954 | 1,268 | 39 | 130 | 2,415 | 578 | 782 | 2,271 | 542 | 3,349 | 406 | 38 | 3,793 | 18 | 2,780 | 181 | 1,761 | 1,173 | 27 | 2,961 | .. | 88·29 | 59·47 |

Average number of operations for each kind of establishment.

35. The average number of persons operated on by different establishments is specified below for the years 1894-95 and 1895-96 :—

| No. | Establishments. | Average number of persons operated on. | |
|---|---|---|---|
| | | 1894-95. | 1895-96. |
| 1 | Municipal vaccinators ... ... | 1,626 | 1,969 |
| 2 | Cantonment do. ... ... | 1,268 | 1,526 |
| 3 | Local Fund do. ... ... | 1,855 | 1,851 |
| 4 | Native State do. ... ... | 1,597 | 1,675 |
| | For the entire Presidency ... | 1,779 | 1,854 |

There was an increase in averages under all establishments except that of Local Fund, where there is a decrease of 4 only. The average number of persons operated on for the entire Presidency was 1,854 against 1,779 in the preceding year.

Average number of operations for each vaccinator by Districts and Circles.

36. The subjoined table indicates the averages by Districts and Circles :—

| No. | Districts and Circles. | Average number of persons vaccinated by each vaccinator. | |
|---|---|---|---|
| | | 1894-95. | 1895-96. |
| 1 | Western Registration District ... | 1,492 | 1,482 |
| 2 | Presidency Circle ... ... | 2,518 | 3,492 |
| 3 | Central Registration District ... | 2,048 | 1,978 |
| 4 | Southern do. ... | 1,852 | 1,880 |
| 5 | Gujarát do. ... | 1,793 | 1,930 |
| 6 | Sind do. ... | 1,600 | 1,827 |
| 7 | Aden ... ... ... | 735 | 1,411 |
| | Average for the whole Presidency ... | 1,779 | 1,854 |

The averages are higher this year in the Presidency Circle and the Gujarát, Southern and Sind Registration Districts and Aden.

The average in the Western Registration District is not so high as it should be, but this may be due to the increase in the number of vaccinators; but more work is required in Khándesh District, in which the total number of operations has fallen off since last year, though additional strength has been given to the District.

Kolába Zilla, though the average work per vaccinator is higher than last year, does not show to advantage beside the adjoining districts of Thána on one side and Ratnágiri on the other.

In Kolába, however, vaccination work is with difficulty carried on owing to opposition of the people and so the number of vaccinators has been increased so that every village can be visited and vaccination offered to the people; and thus in Kolába the average number of people to each vaccinator is 42,491, whilst in Thána it is 54,027, and in Ratnágiri 72,099, whilst the average population per square mile is respectively 270, 215 and 276. Of course the larger the number of the population to each vaccinator the more chance he has of getting subjects to vaccinate.

In the Central Registration District the average is maintained throughout and in the Southern Registration District, excepting Kárwár, where owing to the hilly nature of the district, its unhealthiness, and the way the hamlets are scattered, work is difficult, the Dhárwár District is the one which shows a comparatively low average, but here there is one vaccinator to every 51,568 of population, whilst in Belgaum it is 55,882 and in Bijápur 69,231. The Deputy Sanitary Commissioner in charge states that some of the vaccinators are lazy, but the average is not at all bad.

In Gujárat Circle also the average standard is a high one but varies also with the average population to each Local Fund Vaccinator. In Kaira it is one vaccinator to 44,774 people, whilst in Surat, Broach and Ahmedabad it is respectively 1 to 60,144, 60,264 and 63,067.

English lymph.

37. There were altogether two consignments of English lymph in November 1895 and March 1896. Forty-five tubes of humanized and 20 of bovine lymph were received each time. In Aden calf lymph was sent direct regularly once a quarter from England. It was in each quarter successful there except in September, when it entirely failed.

The table below shows the results of the lymph distributed in the Presidency:—

| Supply received in | Districts and Circles. | Number of | | | | Remarks. |
|---|---|---|---|---|---|---|
| | | Tubes received and tested. | Children and calves operated on. | Insertions. | Resulting vesicles. | |
| November 1895 and March 1896. | Western Registration District. | 18 H | 18 | 75 | 13 | |
| | Presidency Circle ... | 24 C | 7 | 127 | 23 | |
| | Central Registration District. | 18 H | 20 | 100 | 43 | * Lymph used on a calf and some on children. |
| | | 6 C | 7* | 43 | 19 | |
| | Southern Registration District. | 18 H | 17 | 102 | 85 | |
| | | 6 C | 2 | 10 | 10 | |
| | Gujarát Registration District. | 18 H | 17 | 54 | 26 | |
| | Sind Registration District. | 18 H | 14 | 70 | 15 | |
| | | 4 C | ... | ... | ... | |
| | Total ... | 90 H | 86 | 401 | 182 | |
| | | 40 C | 16 | 180 | 52 | |

H = Human lymph.
C = Calf do.

Lymph supply.

38. Lymph was supplied by the Deputy Sanitary Commissioner, Central Registration District, to the Civil Surgeons of Lucknow, Ghásipur and Mundla, Central Provinces, the

Superintendent of Vaccination, Allahabad, the Deputy Sanitary Commissioner, North-West Provinces and Oudh, the Agency Surgeon, Kotah and Jhálawar, the State Surgeon, Dewas, and the Senior Medical Officer, Hingoli, H. C.

The Deputy Sanitary Commissioner, Gujarát Registration District, supplied lymph to the Assistant Surgeons in charge Khárághoda and Sádra dispensaries.

In the Presidency Circle there were 945 applications for lymph against 654 in 1894-95. The total number of tubes issued was 2,339. Of these, 516 were supplied free of charge to Civil Surgeons, to Deputy Sanitary Commissioners, to Medical Officers in charge of Army hospitals in the mofussil, and to Medical Officers of Her Majesty's Troop-ships in the harbour. The remaining 1,823 tubes were sold to private parties in the city as well as in the mofussil. During the year nine inoculated calves were supplied as under: four to the Bándra Municipality, one to the Kurla Municipality, two to the Igatguri Municipality, one to the Alibág Municipality, and one to a gentleman at Daman.

Animal vaccination.

39. Animal vaccination is being gradually extended, and it is satisfactory to note that this mode of vaccinating is appreciated.

Animal vaccination in the Western Registration District.

40. In the Western Registration District animal lymph is used in the towns of Igatpuri, in the Násik Collectorate, Kurla and Bándra in the Thána Collectorate, and Alibág, Nágaon and Panvel in the Kolába Collectorate. The number of persons vaccinated with animal lymph in these towns during the year was 941 primary and 369 revaccination, the successful cases under each head being 873 and 191 respectively.

Animal vaccination in Bombay City.

41. In the city of Bombay animal lymph has been in use for many years past. During the year 584 calves were inoculated: of these, no less than 59 were rejected on account of sickness, nine were supplied to mofussil municipalities and other constituents. The total number of insertions made on the calves was 95,845, each calf having on an average 185 insertions. 93,349 insertions were successful, the percentage of success being 97·39.

Animal vaccination in the Central Registration District.

42. In the Central Registration District the Deputy Sanitary Commissioner states that the practice of using animal lymph was carried on continuously during the year with a considerable amount of success. It was carried on throughout the year in Poona City, Poona Cantonment, Sholápur City and Ahmednagar City. Of the minor municipalities, Junnar, Alandi, Jejuri, Sásvad, Sirúr, Talegáon Dábháda, Lonávla and Bárámati have provided sums for a calf every six months. The municipalities of Sangamner, Vámbori and Bhingár have also provided sums for a calf every six months. The Bársi and Pandharpur Municipalities have provided a calf every four months. In Ratnágiri Zilla, Chiplún Municipality provided a calf. A few large villages provide funds to furnish a calf every six months and some once a year. Many other villages lend a calf for vaccination purposes. Animal vaccination was carried on in the tálukas of Sangamner, Párner, Nevása, Ráhuri, Shrigonda and Nagar of the Ahmednagar Collectorate; Sholápur, Pandharpur, Málsiras, Mádha, Bársi and Akalkot State in the Sholápur Collectorate; tálukas of Sátára, Mán, Karád, Pátan, and the Phaltan State in the Sátára Collectorate; tálukas of Purandhar, Khed, Bhimthadi, Haveli, Máwal, Sirúr, and Junnar of the Poona Collectorate; and Chiplún Táluka of the Ratnágiri Collectorate. Thus 19,071 children were vaccinated in 494 villages of the abovementioned tálukas. Animal vaccination was also carried on in three municipalities during the year and in one Cantonment, and in these 8,804 children were vaccinated. The total number of persons vaccinated with calf lymph in Poona, Sholápur and Nagar towns and in the rural districts was 27,875. In January 1896 animal vaccination was successfully introduced for the first time into Sátára City and is to be carried on continuously if funds admit. It was also introduced for the first time into the Phaltan State, and a large amount of work was done. It was very much needed as, owing to the difficulty of getting the people to give lymph and to their abstaining from having their children vaccinated owing to the fear of lymph being taken from them, the numbers vaccinated were very much falling off. It is very much appreciated by the people, and during the last quarter of the year 433 children were vaccinated. Animal vaccination is now carried on

continuously in all the four large Collectorate towns in the Central Registration District. All animal vaccination is direct from the calf and, except in municipalities, is carried on without any extra cost, the people lending calves or, in a few cases, providing the means to procure them, and any small expenditure such as shaving, &c., is met from contingencies.

The following statement shows the number and results of vaccinations done with human and animal lymph during the year 1895-96 in this district:—

| Districts. | Number of vaccinations. | | Number of successful cases. | | Total. | |
|---|---|---|---|---|---|---|
| | Human. | Animal. | Human. | Animal. | Number of vaccinations. | Successful cases. |
| Ahmednagar ... | 29,081 | 4,622 | 26,424 | 4,009 | 33,703 | 30,433 |
| Poona ... ... | 20,214 | 16,436 | 17,106 | 15,794 | 36,650 | 32,900 |
| Sholápur ... ... | 23,443 | 4,915 | 21,353 | 3,862 | 28,358 | 25,215 |
| Sátára ... ... | 43,744 | 1,140 | 39,700 | 896 | 44,884 | 40,596 |
| Ratnágiri ... ... | 29,124 | 195 | 27,388 | 160 | 29,319 | 27,548 |
| Native States ... | 16,384 | 567 | 15,010 | 521 | 16,951 | 15,531 |
| Total .. | 161,990 | 27,875 | 146,981 | 25,242 | 189,865 | 172,223 |

In connection with the use of animal lymph the Deputy Sanitary Commissioner, Central Registration District, is of opinion that the Compulsory Vaccination Act might now be introduced with advantage into the Poona and Kirki Cantonments and the Suburban and City Municipalities, a combined area being formed. The committees of the first three bodies have assented to the introduction of the Act and the City Municipality are considering the matter. It is hoped that this body will come to a speedy and favourable decision in the matter, so that the Act can be put in force throughout Poona and its surroundings.

Animal vaccination in the Southern Registration District.

43. In the Southern Registration District animal vaccination was continued in Belgaum, Dhárwár, Hubli, Gadag and in the Kolhápur State, and also in Sháhápur, Sángli, Terdal, Rabkavi and Mangalvedha in the Sángli State. The following table shows the particulars of animal vaccination in this district:—

| Places where animal vaccination was carried on. | Heifers inoculated successfully. | Insertions. | | Percentage of insertion success rate. | Persons vaccinated. | | | Successful vaccination. | | | Average cost per each vaccination case, including vaccinator's pay. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Incisions. | Punctures. | | Primary vaccination. | Revaccination. | Total. | Primary vaccination. | Revaccination. | Total. | |
| | | | | | | | | | | | Rs. a. p. |
| Belgaum ... ... ... | 82 | 2,852 | 4,091 | 94·41 | 1,454 | 404 | 1,858 | 1,281 | 189 | 1,470 | 0 7 3 |
| Dhárwár ... ... .. | 78 | 2,088 | 3,048 | 97·59 | 1,530 | 466 | 1,996 | 1,452 | 374 | 1,826 | 0 5 6 |
| Hubli ... ... ... | 73 | 2,505 | 2,487 | 91·05 | 1,852 | 294 | 2,146 | 1,706 | 183 | 1,889 | 0 6 1 |
| Gadag ... ... .. | 19 | 617 | 857 | 96·54 | 1,262 | 295 | 1,557 | 1,153 | 221 | 1,374 | ... |
| Sángli State ... .. | ... | ... | ... | ... | ... | ... | .. | ... | ... | ... | ... |
| Total .. | 252 | 8,062 | 10,483 | ... | 7,798 | 1,790 | 9,588 | 7,034 | 1,184 | 8,218 | ... |

In Gadag, animal vaccination was carried on from December 1895 to March 1896. For the remainder of the year vaccination was carried on with human lymph.

Animal vaccination in Sind Registration District.

44. In Sind, vaccine operations direct from the calf were performed in the town of Karáchi throughout the year without opposition, and the number of primary and revaccinations performed therefrom was 3,005 and 3,388 respectively. Two vaccinifer calves were also taken to Hyderabad town from Karáchi, and the pupils of Union Academy were vaccinated therefrom. Further trial could not be made owing to the opposition of the people in the town.

Heifers inoculated.

45. The following table shows the number of heifers inoculated in some of the towns where animal vaccination was performed during the year and the result of the operations by months from April 1895 to March 1896 inclusive :—

| Months. | Poona City. | | | Poona Camp. | | | Ahmednagar. | | | Shola'pur. | | | Bombay City. | | | Belgaum. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Heifers inoculated. | Successful. | Unsuccessful. | Heifers inoculated. | Successful. | Unsuccessful. | Heifers inoculated. | Successful. | Unsuccessful. | Heifers inoculated. | Successful. | Unsuccessful. | Heifers inoculated. | Successful. | Unsuccessful. | Heifers inoculated. | Successful. | Unsuccessful. |
| April 1895 | 11 | 11 | ... | 6 | 6 | ... | 7 | 7 | ... | 6 | 6 | ... | 50 | 50 | ... | 7 | 7 | ... |
| May ,, | 12 | 12 | ... | 7 | 7 | ... | 8 | 8 | ... | 6 | 6 | ... | 49 | 49 | ... | 7 | 6 | 1 |
| June ,, | 9 | 9 | ... | 6 | 6 | ... | 7 | 7 | ... | 6 | 6 | ... | 42 | 42 | ... | 6 | 5 | 1 |
| July ,, | 9 | 9 | ... | 7 | 7 | ... | 8 | 8 | ... | 7 | 7 | ... | 44 | 44 | ... | 6 | 6 | ... |
| August ,, | 10 | 10 | ... | 6 | 6 | ... | 8 | 8 | ... | 6 | 6 | ... | 45 | 45 | ... | 7 | 7 | ... |
| September ,, | 11 | 11 | ... | 7 | 7 | ... | 8 | 8 | ... | 6 | 6 | ... | 41 | 41 | ... | 7 | 7 | ... |
| October ,, | 11 | 11 | ... | 7 | 7 | ... | 8 | 8 | ... | 6 | 6 | ... | 47 | 47 | ... | 8 | 8 | ... |
| November ,, | 10 | 10 | ... | 6 | 6 | ... | 7 | 7 | ... | 6 | 6 | ... | 45 | 45 | ... | 7 | 7 | ... |
| December ,, | 11 | 11 | ... | 7 | 7 | ... | 7 | 7 | ... | 6 | 6 | ... | 47 | 47 | ... | 8 | 8 | ... |
| January 1896 | 12 | 12 | ... | 7 | 7 | ... | 8 | 8 | ... | 8 | 8 | ... | 51 | 51 | ... | 7 | 7 | ... |
| February ,, | 10 | 10 | ... | 6 | 6 | ... | 7 | 7 | ... | 7 | 7 | ... | 49 | 49 | ... | 8 | 8 | ... |
| March ,, | 11 | 11 | ... | 6 | 6 | ... | 8 | 8 | ... | 8 | 8 | ... | 74 | 74 | ... | 6 | 6 | ... |
| Total | 127 | 127 | ... | 78 | 78 | ... | 91 | 91 | ... | 78 | 78 | ... | 584 | 584 | ... | 84 | 82 | 2 |

| Months. | Dha'rwa'r. | | | Hubli. | | | Gadag-Bettigeri. | | | Kara'chi. | | | Total. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Heifers inoculated. | Successful. | Unsuccessful. | Heifers inoculated. | Successful. | Unsuccessful. | Heifers inoculated. | Successful. | Unsuccessful. | Heifers inoculated. | Successful. | Unsuccessful. | Heifers inoculated. | Successful. | Unsuccessful. |
| April 1895 | 8 | 8 | ... | 6 | 6 | ... | ... | ... | ... | 15 | 15 | ... | 116 | 116 | ... |
| May ,, | 6 | 6 | ... | 6 | 6 | ... | ... | ... | ... | 15 | 15 | ... | 116 | 115 | 1 |
| June ,, | 6 | 6 | ... | 6 | 6 | ... | ... | ... | ... | 15 | 15 | ... | 103 | 102 | 1 |
| July ,, | 7 | 7 | ... | 6 | 6 | ... | ... | ... | ... | 16 | 16 | ... | 110 | 110 | ... |
| August ,, | 7 | 7 | ... | 7 | 7 | ... | ... | ... | ... | 17 | 17 | ... | 113 | 113 | ... |
| September ,, | 6 | 6 | ... | 6 | 6 | ... | ... | ... | ... | 16 | 16 | ... | 108 | 108 | ... |
| October ,, | 7 | 7 | ... | 6 | 6 | ... | ... | ... | ... | 16 | 16 | ... | 116 | 116 | ... |
| November ,, | 6 | 6 | ... | 6 | 6 | ... | ... | ... | ... | 16 | 16 | ... | 109 | 109 | ... |
| December ,, | 7 | 7 | ... | 6 | 6 | ... | 2 | 2 | ... | 16 | 16 | ... | 117 | 117 | ... |
| January 1896 | 7 | 7 | ... | 6 | 6 | ... | 6 | 6 | ... | 18 | 18 | ... | 130 | 130 | ... |
| February ,, | 5 | 5 | ... | 6 | 6 | ... | 6 | 6 | ... | 25 | 25 | ... | 129 | 129 | ... |
| March ,, | 6 | 6 | ... | 6 | 6 | ... | 5 | 5 | ... | 28 | 28 | ... | 158 | 158 | ... |
| Total | 78 | 78 | ... | 73 | 73 | ... | 19 | 19 | ... | 213 | 213 | ... | 1,425 | 1,423 | 2 |

Out of 1,425 heifers inoculated, 1,423 were successful and 2 were unsuccessful. 59 inoculated calves were rejected by the Superintendent of Vaccination, Presidency Circle, Bombay, owing to their sickness. In Bombay City there was cattle disease throughout the year. In February last grave fears were entertained on account of the occurrence of rinderpest which carried away in succession all the inoculated calves except *one*, and all hopes were centred in this *one* which, if it had gone bad, would have been very serious, for just at this time small-pox began and there was not at first enough lymph to meet the demand for vaccination which soon arose as the epidemic gained strength. The Superintendent and his staff, however, carefully increased the supply and were after a time able to meet every demand. The large increase in revaccinations shows the work done, for which great credit is due to Dr. Kantak, the Superintendent, and his staff.

Expenditure.

46. The total expenditure on account of vaccination is shown in the following table as compared with the preceding year :—

| Establishments. | 1894-95. | 1895-96. | Increase. | Decrease. |
|---|---|---|---|---|
| | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. |
| Imperial and Provincial ... ... ... | 1,08,895 9 4 | 1,12,201 12 8 | 3,306 3 4 | ..... |
| Municipal and Cantonment ... ... ... | 56,690 13 7 | 87,625 12 5 | 934 14 10 | ..... |
| Local Fund ... ... ... ... ... | 1,02,031 10 8 | 1,00,538 4 8 | ..... | 1,493 6 0 |
| Native States ... ... ... ... ... | 28,512 4 9 | 31,041 14 11 | 2,529 10 2 | ..... |
| Total .. | 2,76,130 6 4 | 2,81,407 12 8 | 6,277 6 4 | ..... |

The increase under "Provincial" is chiefly due to the fact that the Deputy Sanitary Commissioner, Sind Registration District, had drawn the permanent pay of his appointment during the year, and to the increased rate of the exchange compensation drawn by the Deputy Sanitary Commissioners, Western Registration District and Sind Registration District. Under Municipal and Cantonment there is a slight increase, due to increased prices having to be given for calves in the Central Registration District and to an extra temporary municipal vaccinator being employed in Ahmedabad, whilst under Local Fund there is a decrease of Rs. 1,493-6-0, which chiefly occurs in the Central Registration District, and is owing to the fact that bills due in 1893-94 were paid in 1894-95, thus unduly increasing the total for that year. In the year under report this has not occurred, and hence the decrease. Under Native States there is an increase of Rs 2,529-10-2 over the preceding year. The net increase over the preceding year was Rs. 6,277-6-4. The total cost of all charges for the entire Presidency during the year was Rs. 2,81,407-12-8, whilst the successful cases, excluding Dispensaries and the Army, amounted to 721,899. The average cost for each successful case was annas 6 and pies 3, against annas 6 and pies 2 in the preceding year.

Work of Deputy Sanitary Commissioners.

47. The inspectorial work performed by the supervising officers is shown in the table below :—

| Names of the District and Circles. | Deputy Sanitary Commissioner and Superintendents. | Number of encampments. | Number of travelling days. | Distance travelled in miles. | Number of villages visited. | Number of vaccinated children inspected. |
|---|---|---|---|---|---|---|
| Western Registration District. | Surgeon Major A. V. Anderson... | 49 | 121 | 1,809 | 205 | 7,512 |
| Central do. ... | Surgeon Major A. W. F. Street... | 72 | 234 | 3,304 | 250 | 10,059 |
| Southern do. ... | Surgeon Major O. H. Channer ... | 53 | 130 | 3,016 | 135 | 7,567 |
| Gujarát do. ... | Surgeon Captain T. E. Dyson ... | 37 | 196 | 1,502 | 276 | 7,328 |
| Sind do. ... | Surgeon Captain H. C. L. Arnim. | 94 | 180 | 5,750 | 584 | 25,797 |
| | | 305 | 861 | 15,381 | 1,450 | 58,263 |

The highest number of children inspected in any one district during the year was (25,797) in the Sind Registration District and the lowest (7,328) in the Gujarát Registration District. Out of 58,263 inspected children 42,707 were inspected by calling their names from the register. These officers travelled the distance of 15,381 miles in 861 days and inspected the aforesaid children in 1,450 villages.

Inspection from vaccination registers.

48. The following table shows the work of supervising officers tested by calling names from registers :—

| Districts and Circles. | Work tested by calling names from Registers. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of vaccinated children inspected. | Present during inspection. | | | Absent during inspection. | | Number of persons whom the vaccinator has returned as vaccinated. | | | | |
| | | Successful. | | Unsuccessful. | Absence accounted for | Absence unaccounted for. | Successful. | Unsuccessful. | Unknown. | Total. | Excess of operations over persons. |
| | | Good. | Bad. | | | | | | | | |
| Western Registration District. | 6,905 | 5,553 | 986 | 366 | 5,707 | ... | 11,941 | 176 | 501 | 12,618 | 6 |
| Central do. ... | 10,059 | 9,329 | 603 | 127 | 7,893 | ... | 16,066 | 191 | 1,697 | 17,954 | 2 |
| Southern do. ... | 4,186 | 3,520 | 567 | 109 | 1,770 | ... | 5,674 | 45 | 237 | 5,956 | ..... |
| Gujarat do. ... | 7,328 | 6,028 | 1,181 | 119 | 2,071 | ... | 9,119 | 153 | 144 | 9,416 | 17 |
| Sind do. ... | 14,229 | 8,186 | 5,706 | 337 | 14,927 | ... | 25,448 | 1,068 | 3,711 | 29,227 | 71 |
| Total ... | 42,707 | 32,616 | 9,033 | 1,058 | 32,368 | ... | 68,248 | 1,633 | 5,290 | 75,171 | 96 |

It will be seen from the foregoing tables that out of 58,263 children inspected, the results in 42,707 instances were tested by calling their names from registers, in which there were enrolled 75,171 names, of whom 96 were vaccinated more than once on account of the failure of the first operation. The results given by vaccinators were 68,248 as successful, 1,537 unsuccessul, exclusive of 96 secondary operations, and 5,290 unknown ; while on inspection the figures were 41,649, 1,058 and 32,368 respectively. Excluding the " unknown, " or rather the number of children ' absent ' at the time of inspection from both sides, the vaccinators' figures give the percentages of 97·66 as successful and 2·34 as unsuccessful, while the inspection figures return them as 97·52 and 2·48 respectively. Out of 41,649 children successful 32,616 or 78·31 per cent. were marked as having ' good ' cicatrices and 9,033 or 21·69 per cent. as ' bad.'

Inspection work of Deputy Sanitary Commissioners.

49. The following table shows the amount of inspection work done during the working season of the year 1895-96 and the time spent in inspection in each Collectorate by the Deputy Sanitary Commissioners, as required by paragraph 5 of Government Resolution in the General Department, No. 2980 of 24th August 1893. It has already been explained that owing to the large area of the Districts and the various duties connected with sanitary inspection of important towns it is impossible for the Deputy Sanitary Commissioners to visit every táluka for thorough vaccination inspection oftener than once in two years. Almost all the rural and town circles have, however, been visited by the Inspectors of Sanitation and Vaccination during the year :—

| Districts. | Collectorates. | Number of Tálukas and Town Circles. | Number of Tálukas and Towns inspected. | Number of Tálukas and Towns remained to be inspected. | Number of miles travelled. | Number of days spent in inspection. | Number of Persons operated on by Vaccinators. | Number of vaccinated Persons inspected. | Percentage of Inspections to total number vaccinated. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| Western Registration District. | Khándesh ... ... | 26 | 10 | 16 | 301 | 40 | 46,043 | 1,624 | 3·53 | |
| | Násik .. ... ... | 16 | 11 | 5 | 713 | 36 | 27,427 | 2,080 | 7·58 | |
| | Thána ... ... | 11 | 7 | 4 | 331 | 12 | 23,888 | 1,059 | 4·43 | |
| | Kolába .. ... | 11 | 11 | ... | 398 | 28 | 19,111 | 2,126 | 11·12 | |
| | Native States ... | 4 | 1 | 3 | 66 | 5 | 6,568 | 623 | 9·48 | |
| Central Registration District. | Ahmednagar .. ... | 14 | 4 | 10 | 227 | 10 | 33,703 | 739 | 2·19 | |
| | Poona... ... ... | 12 | 8 | 4 | 1,356 | 121 | 36,650 | 2,847 | 7·76 | |
| | Sholápur ... ... | 10 | 10 | ... | 944 | 50 | 28,358 | 3,806 | 13·42 | |
| | Sátara ... ... | 15 | 5 | 10 | 83 | 7 | 44,884 | 480 | 1·07 | |
| | Ratnágiri ... ... | 10 | 7 | 3 | 606 | 41 | 29,319 | 1,526 | 5·20 | |
| | Native States ... | 4 | 4 | ... | 88 | 5 | 10,518* | 661 | 6·29 | |
| Southern Registration District. | Belgaum ... ... | 11 | 3 | 8 | 1,070 | 31 | 42,496 | 889 | 2·09 | Without register. 41 |
| | Dhárwár ... .. | 17 | 14 | 3 | 992 | 54 | 39,947 | 2,338 | 5·85 | Do. ... 2,182 |
| | Bijápur ... ... | 10 | ... | 10 | ... | ... | 33,698 | ... | ... | Not inspected. |
| | Kánara ... ... | 13 | 6 | 7 | 415 | 25 | 16,953 | 245 | 1·45 | Without register. 686 |
| | Native States ... | 37 | 9 | 28 | 539 | 20 | 60,520 | 714 | 1·18 | |
| Gujarát Registration District. | Surat ... ... ... | 10 | 2 | 8 | 99 | 22 | 21,790 | 340 | 1·56 | |
| | Broach ... .. | 8 | 5 | 3 | 380 | 48 | 11,068 | 1,281 | 11·57 | |
| | Kaira... ... ... | 11 | 5 | 6 | 380 | 41 | 27,170 | 2,335 | 8·59 | |
| | Panch Maháls ... | 7 | 3 | 4 | 253 | 32 | 11,942 | 1,271 | 10·64 | |
| | Ahmedabad... ... | 12 | ... | 12 | ... | ... | 31,070 | ... | ... | Not inspected. |
| | Native States ... | 21 | 6 | 15 | 390 | 53 | 41,717 | 2,101 | ... | |
| Sind Registration District. | Karáchi ... ... | 16 | 14 | 2 | 1,825 | 57 | 27,157 | 3,377 | 12·44 | |
| | Hyderabad ... ... | 13 | 9 | 4 | 1,648 | 42 | 28,901 | 4,064 | 14·06 | |
| | Thar and Párkar ... | 9 | 4 | 5 | 352 | 26 | 14,166 | 2,204 | 15·56 | |
| | Shikárpur ... ... | 18 | 7 | 11 | 1,439 | 30 | 37,665 | 2,373 | 6·30 | |
| | Upper Sind Frontier. | 5 | 4 | 1 | 422 | 19 | 6,974 | 1,320 | 18·93 | |
| | Native States ... | 4 | 2 | 2 | 64 | 6 | 5,714 | 891 | 15·59 | |
| | Total ... | 355 | 171 | 184 | 15,381 | 861 | 765,417 | 43,314 | 5·66 | |

* Exclusive of Sávantvádi State.

Work of Inspectors and Assistant Superintendents of Vaccination.

50. The work of Inspectors and Assistant Superintendents of Vaccination is detailed by districts in the table subjoined :—

| Districts and Circles. | Number of encampments. | Number of travelling days. | Distance travelled in miles. | Number of villages visited. | Work tested by calling Names from Registers. | | | | | | | | | | Excess of operations over persons. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Number of vaccinated children inspected. | Present during inspection. | | | Absent during inspection. | | Number of persons whom the Vaccinator has returned as vaccinated. | | | | |
| | | | | | | Successful. | | Unsuccessful. | Absence accounted for. | Absence unaccounted for. | Successful. | Unsuccessful and doubtful. | Unknown. | Total. | |
| | | | | | | Good. | Bad. | | | | | | | | |
| Western Registration District. | 962 | 1,713 | 16,055 | 2,353 | 52,070 | 38,616 | 11,646 | 1,808 | 18,438 | 2 | 66,092 | 1,269 | 3,231 | 70,591 | 81 |
| Central Registration District. | 685 | 1,646 | 11,440 | 1,925 | 67,151 | 61,049 | 4,918 | 1,184 | 32,554 | .. | 90,577 | 374 | 8,257 | 99,708 | 3 |
| Southern Registration District. | 1,090 | 2,620 | 26,497 | 2,519 | 74,224 | 61,530 | 11,069 | 1,625 | 30,701 | .. | 96,750 | 1,368 | 6,890 | 105,008 | 83 |
| Gujarát Registration District. | 376 | 1,283 | 10,024 | 2,205 | 55,827 | 45,716 | 9,193 | 918 | 16,676 | 4 | 69,833 | 1,091 | 1,696 | 72,620 | 113 |
| Sind Registration District. | 733 | 1,368 | 12,960 | 3,382 | 43,025 | 19,796 | 20,686 | 2,543 | 19,584 | .. | 54,624 | 2,469 | 5,625 | 62,718 | 109 |
| Total .. | 3,846 | 8,630 | 76,976 | 12,384 | 292,297 | 226,707 | 57,512 | 8,078 | 117,953 | 6 | 377,876 | 7,070 | 25,699 | 410,645 | 389 |

During the year there were 40 Inspectors of Sanitation and Vaccination who were on travelling duty. The names of 410,256 children were called from registers, of whom 292,297 were present and 117,953 absent, but their absence was accounted for, whilst 6 had migrated. Out of 292,297 children inspected 284,219 were protected and in 8,078 cases the operation was unsuccessful. Again out of 284,219 successful cases 226,707 had good cicatrices and 57,512 "bad." In the registers tested the results were entered as 377,876 successful, 7,070 unsuccessful and doubtful, 25,699 unknown or absent and 389 secondary operations. The greatest number of children inspected was in the Southern Registration District and the greatest number of villages seen was in Sind.

Conduct of members in the Department.

51. The conduct of the inspecting officers was reported to be satisfactory. The conduct of the vaccinators, clerks and peons, with few exceptions, was generally good.

Inoculation.

52. No inoculation was reported to have been practised anywhere in the Presidency, except in the Dángs under the Khándesh Agency, which is being enquired into.

Ill effects by vaccination.

53. No instances were reported of any disease having been communicated through vaccination except that the Deputy Sanitary Commissioner, Central Registration District, reports a death attributed to erysipelas following vaccination occurred in a rickety child in Vengurla town. Three other cases of erysipelas after vaccination also occurred in the same town, but from enquiries made it appears that there was a case existing in the town entirely unconnected with vaccination and that in two of the four cases the lymph used was not that in use in the town.

Villages visited and not visited by vaccinators.

54. The following statement shows the number of villages visited, as well as those left unvisited, by the vaccinators of the department in each District and Native States during the year under report, as per paragraph 5 of Government Resolution in the General Department, No. 4748 of 4th December 1890:—

| Districts. | Villages in British Territory. | | Villages in Native States. | | Total Villages. | |
|---|---|---|---|---|---|---|
| | Visited. | Not visited. | Visited | Not visited. | Visited. | Not visited. |
| Western Registration District ... | 6,916 | 1,098 | 158 | 61 | 7,074 | 1,159 |
| Central do. ... | 5,814 | 59 | 659 | 52 | 6,473 | 111 |
| Southern do. ... | 5,334 | 9 | 1,903 | 4 | 7,237 | 13 |
| Gujarát do. ... | 3,333 | 25 | 3,560 | 673 | 6,893 | 698 |
| Sind do. ... | 14,654 | 5,537 | 616 | 748 | 15,270 | 6,285 |
| Total ... | 36,051 | 6,728 | 6,896 | 1,538 | 42,947 | 8,266 |

It will be seen that out of 51,213 villages in the Presidency, 42,947 were visited by vaccinators and 8,266 or 19·25 per cent. were not visited. In the British territory 36,051 villages were visited and 6,728 or 18·66 per cent. remained unvisited, whilst in Native States the percentage of unvisited villages was 22·30.

Practical instruction in animal vaccination.

55. Dr. Channer, the Deputy Sanitary Commissioner, Southern Registration District, and Dr. Street, the Deputy Sanitary Commissioner, Central Registration District, gave lectures and practical demonstrations in animal vaccination to the several Inspectors of Sanitation and Vaccination and vaccinators in their districts during the rains. In the city of Bombay the class for instruction was open during the months of August and September 1895. Here 20 subordinates in all, attended the course, of whom 2 were vaccinators, 5 paid candidates, 12 unpaid candidates, and one clerk. Practical instruction was imparted also to one L. M. & S., 5 medical students, and 15 Military medical pupils.

Small-pox by Collectorates.

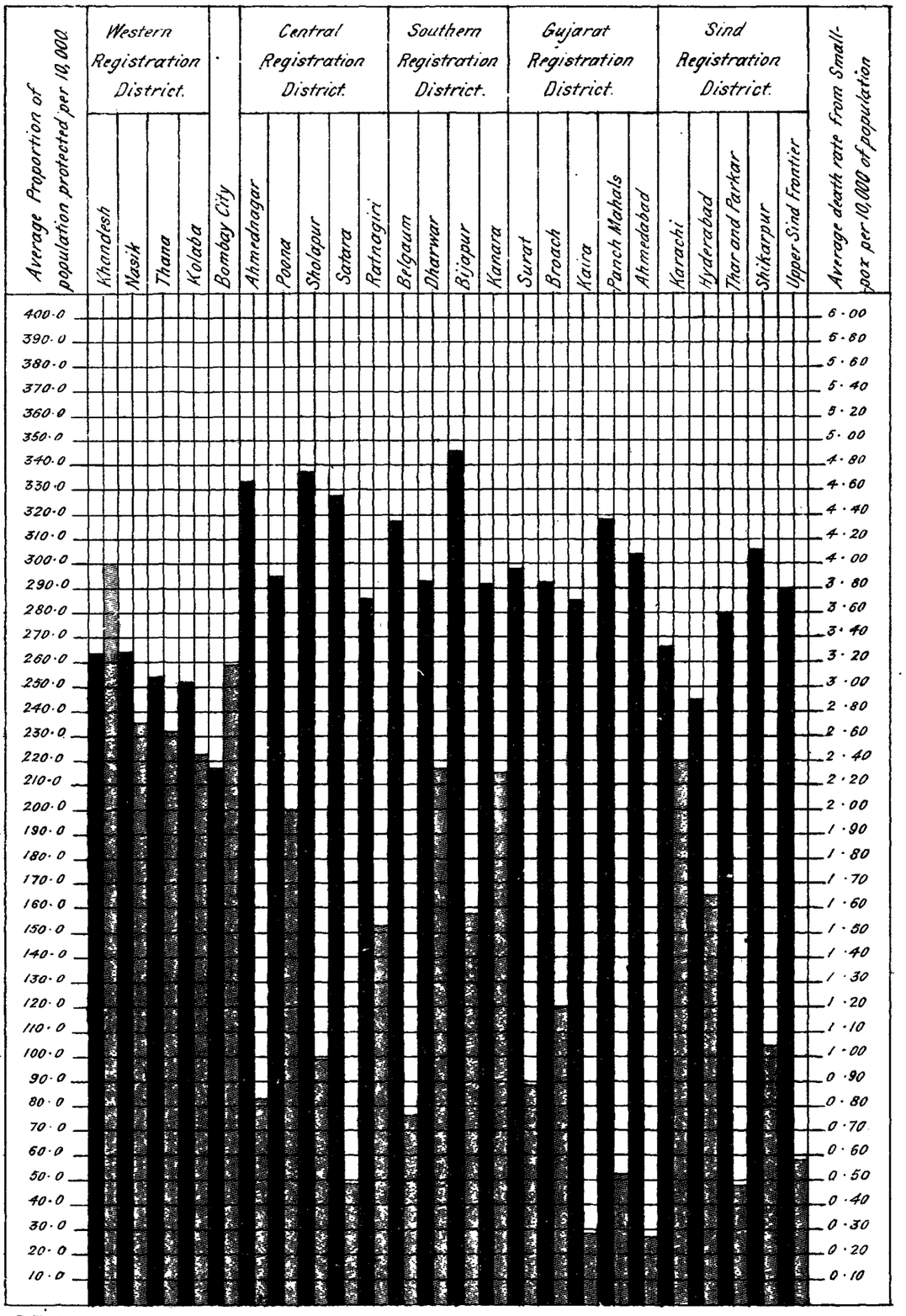
56. The table given below shows the deaths from small-pox for the year under report, as well as the ages of the deceased and the number of persons successfully operated on in each district:—

| District and Circle. | | Collectorate. | Deaths from Small-pox. | | | Number of persons successfully operated on. |
|---|---|---|---|---|---|---|
| | | | Total Deaths. | Ages. | | |
| | | | | Under 1 year. | Under 12 years. | |
| Western Registration District | 1 | Khándesh ... ... ... | 910 | 254 | 617 | 41,203 |
| | 2 | Násik ... ... ... ... | 672 | 182 | 467 | 25,382 |
| | 3 | Thána ... ... ... ... | 63 | 14 | 42 | 21,399 |
| | 4 | Kolába ... ... ... ... | 260 | 77 | 176 | 17,793 |
| Presidency Circle ... ... | 5 | Bombay City ... ... ... | 516 | 174 | ... | 20,440 |
| Central Registration District | 6 | Ahmednagar ... ... ... | 24 | 10 | 8 | 30,433 |
| | 7 | Poona ... ... ... ... | 92 | 24 | 58 | 32,900 |
| | 8 | Sholápur... ... ... ... | 22 | 6 | 14 | 26,801 |
| | 9 | Sátára ... ... ... ... | 38 | 4 | 13 | 48,360 |
| | 10 | Ratnágiri ... ... ... | 115 | 55 | 34 | 33,729 |
| Southern do. ... | 11 | Belgaum... ... ... ... | 272 | 73 | 142 | 37,483 |
| | 12 | Dhárwár... ... ... ... | 93 | 28 | 40 | 35,488 |
| | 13 | Bijápur ... ... ... ... | 21 | 6 | 12 | 30,960 |
| | 14 | Kánara ... ... ... ... | 20 | ... | 1 | 14,387 |
| Gujarát do. ... | 15 | Surat ... ... ... ... | 180 | 53 | 76 | 20,717 |
| | 16 | Broach ... ... ... ... | 36 | 8 | 17 | 10,584 |
| | 17 | Kaira ... ... ... ... | 70 | 22 | 38 | 26,361 |
| | 18 | Panch Mahála ... ... ... | 123 | 31 | 80 | 11,649 |
| | 19 | Ahmedabad ... ... ... | 187 | 56 | 100 | 28,997 |
| Sind do. ... | 20 | Karáchi... ... ... ... | 99 | 18 | 27 | 23,775 |
| | 21 | Hyderabad ... ... ... | 233 | 71 | 161 | 24,473 |
| | 22 | Thár and Párkar ... ... | 20 | 4 | 8 | 12,719 |
| | 23 | Shikárpur ... ... ... | 62 | 10 | 27 | 32,464 |
| | 24 | Upper Sind Frontier ... ... | 19 | 5 | 9 | 5,431 |
| | | Total ... | 4,147 | 1,185 | 2,167 | 612,978 |

Small-pox was prevalent in every district in the Presidency during the year. In Bombay City, it was prevalent throughout the year, and 516 deaths were recorded. Though there is a Compulsory Vaccination Act in Bombay, it is difficult to secure the vaccination of all children brought into Bombay. The question of compulsory revaccination is also brought forward by the Superintendent of Vaccination, Bombay, as it is known that the protective influence of vaccination does not last a lifetime. That many are willing to be revaccinated is shown by the large number of revaccinations performed during the last month of the year under report. The Superintendent of Vaccination, Presidency Circle, suggests the vaccination of all school children above the age of ten years. "It would be necessary beforehand to make a systematic in-

## DIAGRAM

*Showing the average proportion of population protected, and the average death-rate, from Small-pox, per 10,000 of population during the ten years 1885-86 to 1894-95 inclusive*


Average Proportion of population protected per 10,000
Western Registration District.
Khandesh
Nasik
Thana
Kolaba
Bombay City
Central Registration District.
Ahmednagar
Poona
Sholapur
Satara
Ratnagiri
Southern Registration District.
Belgaum
Dharwar
Bijapur
Kanara
Gujarat Registration District.
Surat
Broach
Kaira
Panch Mahals
Ahmedabad
Sind Registration District.
Karachi
Hyderabad
Thar and Parkar
Shikarpur
Upper Sind Frontier
Average death rate from Small-pox per 10,000 of population
400·0 390·0 380·0 370·0 360·0 350·0 340·0 330·0 320·0 310·0 300·0 290·0 280·0 270·0 260·0 250·0 240·0 230·0 220·0 210·0 200·0 190·0 180·0 170·0 160·0 150·0 140·0 130·0 120·0 110·0 100·0 90·0 80·0 70·0 60·0 50·0 40·0 30·0 20·0 10·0
6·00 5·80 5·60 5·40 5·20 5·00 4·80 4·60 4·40 4·20 4·00 3·80 3·60 3·40 3·20 3·00 2·80 2·60 2·40 2·20 2·00 1·90 1·80 1·70 1·60 1·50 1·40 1·30 1·20 1·10 1·00 0·90 0·80 0·70 0·60 0·50 0·40 0·30 0·20 0·10

B.387

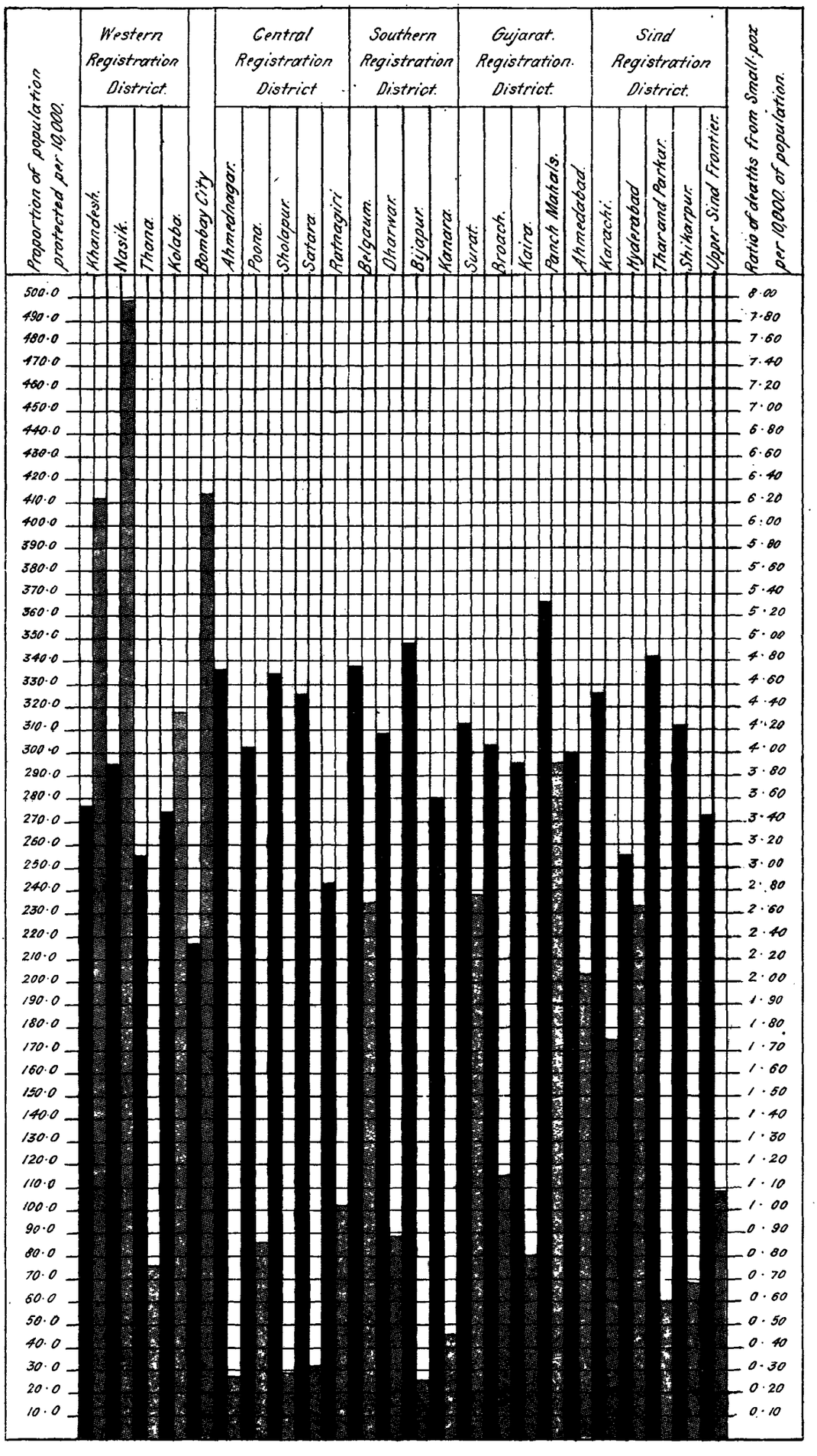
Indicates average proportion of population protected per 10,000

_____Do._____death-rate from Small-pox per 10,000 of population.

Drawn & Litho: Govt. Photozinco: Office, Poona 1896.

# DIAGRAM

*Showing the proportion of population protected, and the death-rate from Small-pox per 10,000 of population during 1895-96.*




Indicates proportion of population protected per 10,000.

—Do.—ratio of deaths from Small-pox per 10,000 of population.

Drawn and Litho: Govt. Photozinco: Office, Poona 1896.

spection of all of them, and I shall be prepared to do it without any way inconveniencing the school work."

In the Rural Circles the largest mortality is shown in the Khándesh and Násik Districts. In Khándesh the small-pox has been advancing from the eastern side in spite of every effort to stop it. It is in the larger towns and villages that there is a difficulty in doing work, especially revaccination. This year it has spread into the Násik Zilla and there were sharp outbreaks at Yeola and Málegaon towns. In the latter town alone over 32 per cent. of the total deaths reported in the district occurred. This town has a large poor and dirty population of the weaver class who have come in from another district and they overcrowd in badly ventilated huts, and when disease appears it takes a firm hold. In Hyderabad Collectorate also of the deaths reported, more than half occurred in the town itself. The Deputy Sanitary Commissioner, Western Registration District, enquired into 1,577 cases of small-pox, and of these 718 were previously vaccinated and 859 were unprotected. Among the 718 vaccinated 38 died or 5·29 per cent., whilst of the 859 unvaccinated 146 died or 16·99 per cent.

In the Násik District 606 cases of small-pox were enquired into, 159 were previously vaccinated and 447 were not. Of those previously vaccinated 31 died or 19·49 per cent., whilst of the 447 not vaccinated 217 died or 48·54 per cent.

The Deputy Sanitary Commissioner, Sind Registration District, remarks on the opposition to vaccination in Hyderabad town and the difficult conditions which prevail there, on which a good deal of correspondence has passed. With regard to the outbreak in the province generally, he states that all efforts to establish protective areas around the foci of the disease were rendered futile, that measures of isolation and disinfection were neglected, municipalities being in doubt as to their powers under the District Municipal Act to enforce preventive measures, and that conveyance of persons suffering from the disease by road, boat or rail very frequently happened.

Diagrams showing the death-rate from small-pox and the proportion of population protected against the disease, by vaccination.

57. In compliance with the instructions contained in letter from the Government of India, Home Department, Sanitary, No. 44, dated 8th February 1894, printed in the preamble of Government Resolution in the General Department, No. 764 of 1st March 1894, there are two diagrams given, one to illustrate the average number of the population protected against small-pox and the mean death-rate from the disease per 10,000 of population for the last ten years (1885-86 to 1894-95 inclusive), and the other to illustrate the same proportion for the year under report.

*Vaccination progress.*

Progress in the Western Registration District.

58. The Western Registration District extends over an area of 24,546 square miles, comprising the Collectorates of Khándesh, Násik, Thána and Kolába, and the Native States of Jowhár, Janjira and Dángs. It has a population of 3,898,314 persons. It is administered by a Deputy Sanitary Commissioner, who has working under him 8 Inspectors of Sanitation and Vaccination, 2 clerks, 91 vaccinators and candidates and 94 peons. Each vaccinator on an average worked amongst a population of 46,973 persons.

They primarily vaccinated 115,606 and revaccinated 7,431 persons; in the previous year the respective figures were 112,619 and 6,795. There were 107,916 or 93·20 per cent. successful under primary vaccination and 4,034 or 54·27 per cent. under revaccination. These together give the total rate of protection as 28·97 per mille of population, while last year it was 27·15. The total cost was Rs. 49,994-14-9 and the average cost per each successful case was annas 7 and pies 2 against annas 7 in the preceding year. Each vaccinator averaged 1,482 persons. There were 1,905 deaths from small-pox against 1,063 in the previous year.

59. In the Khándesh Zilla there are 30 vaccinators. Each vaccinator has, on an average, a population of 48,695 persons. The primary vaccinations amounted to 44,893, which in 40,559 instances or 90·09 per cent. were successful; 1,150 persons were revaccinated and in 644 or 55·95 per cent. cases successfully. The rate of protection per mille of population was 28·20. The total cost of vaccination was Rs. 10,013-0-9, which is equal to annas 3 and pies 11 for each successful case. The average number of operations for each vaccinator was 1,535 in the year. 910 deaths from small-pox were returned during the year against 718 last year.

Khándesh.

60. The Násik Zilla has 18 vaccinators, each of whom has, on an average, a population of 46,866 persons. There were 26,809 primary vaccinations and 618 revaccinations performed and the successful cases were 24,947 and 435 or 92·94 and 70·39 per cent. respectively. The rate of protection per mille of population was 30·09. Each vaccinator vaccinated 1,524 persons. The total cost was Rs. 5,707-9-9 or annas 3 and pies 7 per each successful case. There were 672 deaths from small-pox against 100 last year.

Násik.

61. In the Thána Collectorate there are 17 vaccinators, each of whom has, on an average, a population of 53,228 persons. There were 21,943 primary vaccinations and 1,945 revaccinations; of these, 20,921 and 478 or 95·22 and 34·57 per cent. were successful. The rate of protection per mille of population was 26·10 against 24·46 last year. Each vaccinator vaccinated 1,405 persons. The total cost was Rs. 5,399-11-1, which gives annas 4 as the average cost per successful case; last year it was annas 4 and pie 1. No dispensary officer performed vaccination in this zilla. There were 63 deaths from small-pox against 108 in the year preceding.

Thána.

62. In the Kolába Collectorate there are 14 vaccinators, each of whom has, on an average, a population of 42,491 persons. There were 16,686 primary vaccinations and 2,425 revaccinations; of these, 16,318 and 1,475 or 97·75 and 60·82 per cent. were successful. The rate per mille of population protected was 29·91 against 25·84 the previous year. Each vaccinator vaccinated 1,365 persons on an average. The total cost was Rs. 4,264-3-0, which gives annas 3 and pie 1 as the average cost per each successful case; last year it was annas 4 and pie 1. No dispensary officer performed vaccination in this zilla. There were 260 deaths from small-pox against 137 in the preceding year.

Kolába.

63. The Native States in this district are, as stated above, Jowhár, Janjira and Dángs. They have a collective population of 179,929 persons. There are four vaccinators, one for Jowhar, two for Janjira and one for Dángs. The number of persons primarily vaccinated and revaccinated by these vaccinators was respectively 5,275 and 1,293, of which 5,171 and 1,002 were successful. 3 persons were revaccinated in the Dángs State. The rate of protection per mille of population was 34·87. Each vaccinator on an average operated on 1,642 persons. The total expenditure amounted to Rs. 1,882-11-0 and the average cost per each successful case was annas 4 and pies 11.

Native States in the Western Registration District.

64. The Presidency Circle comprises the city of Bombay. It has an area of 22 square miles with a population of 821,764 persons. It is administered by a Superintendent of Vaccination paid by Government, who has under his orders one Assistant Superintendent, one head vaccinator, 8 vaccinators, 5 clerks, 17 kárkuns, 3 peons, 1 mukádam and 11 coolies, all paid by the municipality. During the year under report, there were 19,022 primary vaccinations and 8,913 revaccinations, of which the successful cases were 17,760 and 2,680 or 93·36 and 30·06 per cent. respectively. The rate per mille of population protected was 24·87. Each vaccinator, on an average, vaccinated 3,492 persons. The total cost was Rs. 19,692-3-2 and the average cost of each successful case was annas 15 and pies 5. Vaccination was practised by the medical officers in the House of Correction and Common

Presidency Circle.

Jail. They revaccinated 193 persons. There were 516 deaths from small-pox during the year.

Central Registration District.

65. The Central Registration District comprises the Collectorates of Ahmednagar, Poona, Sholápur, Sátára, and Ratnágiri, the Native States of Akalkot, the Sátára Jághirs (Aundh, Bhor and Phaltan) and Sávantvádi. It has a population of 5,595,079 and an area of 28,702·26 square miles. It is administered by a Deputy Sanitary Commissioner, who has working under him 7 Inspectors of Sanitation and Vaccination, 2 clerks, 9 Municipal, 1 Cantonment, 74 Local Fund, 6 candidates and 12 Native State vaccinators, and 102 peons. The area for each vaccinator on an average is 298·97 square miles with a population of 58,282 souls. The vaccinators performed 184,763 primary vaccinations and 5,102 revaccinations. Under each head the successful cases were respectively 169,472 and 2,751 or 91·72 and 53·92 per cent. There were 30·78 persons per 1,000 of population successfully operated on, whilst last year the number was 32·10. The average number of vaccinations performed by each vaccinator was 1,978 and the average cost per successful case calculated on the total cost of Rs. 51,664-0-7 was 4 annas and 9 pies. There were 291 deaths from small-pox. No vaccination work was performed by dispensary officers in this District during the year.

Ahmednagar.

66. In the Ahmednagar Zilla there are 15 vaccinators and the average population and area per vaccinator are respectively 59,250 persons and 439·6 square miles. There were 33,006 primary vaccinations and 697 revaccinations and the successful cases in each kind were 29,901 and 532 respectively, the percentage of success being 90·59 and 76·33. The rate per 1,000 of population protected was 34·24 against 33·48 last year. Each vaccinator vaccinated 2,247 persons. The total cost was Rs. 4,742-0-10 and the average cost for each successful case was annas 2 and pies 6. There were 24 deaths from small-pox during the year.

Poona.

67. In the Poona Collectorate there are 19 vaccinators. The average population and area per vaccinator were respectively 56,200 persons and 265·28 square miles. Out of 35,048 primary vaccinations and 1,602 revaccinations 32,238 and 662 or 91·98 and 41·32 per cent. were successful. The rate per mille of population protected was 30·81 against 31·47 last year. Each vaccinator on an average operated on 1,929 persons. The total cost was Rs. 7,135-8-10, which gives the average cost per successful case as annas 3 and pies 6. There were 92 deaths from small-pox in the year under report.

Sholápur.

68. In the Sholápur Zilla there are 14 vaccinators, each of whom has, on an average, an area of 326·36 square miles and a population of 53,620 souls. There were 28,219 primary vaccinations and 139 revaccinations; of these, 25,107 and 108 or 88·97 and 77·41 per cent. were successful. The rate per mille of population protected was 33·59 against 36·45 last year. Each vaccinator vaccinated 2,026 persons on an average. The total cost was Rs. 4,827-6-0, which gives annas 2 and pies 10 as the average cost per each successful case against annas 2 and pies 10 last year. There were 22 deaths from small-pox in the year.

Sátára.

69. In the Sátára Zilla there are 20 vaccinators; each vaccinator has, on an average, a population of 61,299 persons and an area of 240·88 square miles. There were 43,548 persons primarily vaccinated and 1,336 revaccinated. The successful cases of each kind were 39,889 or 91·57 and 707 or 52·91 per cent. The rate of protection per mille of population was 33·12 against 33·81 in 1894-95. Each vaccinator vaccinated 2,244 persons on an average. The total cost for the Collectorate was Rs. 7,709-3-0 or annas 2 and pies 6 per successful case. Last year it was annas 2 and pies 8. There were 38 deaths from small-pox during the year.

Ratnágiri.

70. In the Ratnágiri Zilla there are 16 vaccinators. Each vaccinator has, on an average, a population of 69,116 persons and an area of 245·13 square miles. The number of primary vaccinations was 28,166 and of re-vaccinations 1,153. The successful cases

were respectively 26,899 and 649 or 95·50 and 57·59 per cent. The rate of protection per mille of population was 24·91 against 28·18 last year. The average number of vaccinations per each vaccinator was 1,832. The total cost was Rs. 4,566-10-4 or annas 2 and pies 8 per successful case. Last year it was also annas 2 and pies 8. There were 115 deaths from small-pox during the year.

Native States in the Central Registration District.

71. The Native States in this District are Akalkot, Sátára Jághirs and Sávantvádi, and they have a collective population of 555,920 persons and an area of 3,759 square miles. The Akalkot State has one vaccinator, and the Sátára Jághirs 6, whilst Sávantvádi has 5 vaccinators and one Inspector. The total number operated on was 16,951, of which 175 were revaccinations. The successful cases were 15,438 or 92·03 per cent. and 93 or 53·14 per cent. under each kind of operation. The rate of protection per mille of population was 27·93 against 28·95 last year. The total cost was Rs. 1,868-8-3 or annas 4 and pies 10 per successful case against annas 3 and pies 7 last year. Each vaccinator on an average performed 1,413 operations.

Southern Registration District.

72. The Southern Registration District comprises the Collectorates of Belgaum, Dhárwár, Bijápur and Kánara,, the Kolhápur States, Jath State, Southern Marátha Jághirs and the Savanur State under the Dhárwár Agency. It has a population of 4,956,428 persons and an area of 28,781 square miles, and is administered by a Deputy Sanitary Commissioner, who has under his orders 13 Inspectors, 1 Assistant Superintendent of Vaccination, 3 clerks, 113 vaccinators and candidates and 120 peons. No vaccination was carried on by the Medical officers during the year. There were primarily vaccinated 167,209 and revaccinated 26,405 persons, of whom 155,403 or 92·94 per cent. and 17,283 or 65·45 per cent. were successful. The rate of protection per mille of population was 34·84. The total cost was Rs. 64,548-13-3, and the average cost per each successful case was annas 5 and pies 11. 406 deaths from small-pox were recorded.

Belgaum.

73. In the Belgaum Collectorate, there are 19 vaccinators, each of whom has, on an average, a population of 53,329 persons. The number of persons under each kind of operation was 37,164 and 5,332, and the successful cases were 34,191 and 3,292, the percentages of success being 92·00 and 61·74. The rate per 1,000 of population protected was 36·99. Each vaccinator on an average vaccinated 2,237 persons. The total expenditure was Rs. 6,424-11-9 or annas 2 and pies 9 per each successful case. There were 272 deaths from small-pox during the year under report.

Dhárwár.

74. In the Dhárwár Zilla, there are in all 22 vaccinators, each of whom has, on an average, a population of 47,787 persons. There were 35,564 persons primarily vaccinated and 4,383 revaccinated. The successful cases in each were 32,519 and 2,969 or 91·44 and 67·81 per cent. Out of every 1,000 inhabitants 33·76 were successfully vaccinated. The average number of vaccinations performed by each vaccinator was 1,816. The total cost for the District was Rs. 8,657-2-2 or annas 3 and pies 10 per each successful case. No medical officer performed any vaccination work in the dispensaries of this zilla. There were 93 deaths from small-pox recorded during the year.

Bijápur.

75. In the Bijápur Collectorate, there are 13 vaccinators, each of whom has, on an average, a population of 61,257 persons. There were 29,048 persons primarily vaccinated and 4,650 revaccinated. The successful cases in each were 27,774 and 3,186 or 95·61 and 68·52 per cent. The rate of protection per mille of population was 38·88. The average number of vaccinations performed by each vaccinator was 2,592. The total cost was Rs. 4,265-7-8 or annas 2 and pies 2 per each successful case. There were 21 deaths from small-pox recorded in this zilla during the year.

Kánara

76. The Kánara Zilla has 16 vaccinators, each of whom has, on an average, a population of 27,897 persons. There were 14,053 persons primarily vaccinated and 2,900 revaccinated.

The successful cases in each were 12,527 and 1,860 respectively, and their percentages were 89·14 and 64·14. Out of every 1,000 persons 32·33 were successfully vaccinated. The average number of vaccinations performed by each vaccinator was 1,060. The total cost was Rs. 5,180-14-11 or annas 5 and pies 9 per each successful case. There were 20 deaths from small-pox recorded in this zilla during the year.

Native States in the Southern Registration District.

77. The State of Kolhápur, the Southern Marátha Jághirs, including Jath State, and the Savanúr State under the Dhárwár Agency, have a collective population of 1,649,163 persons. There were in all 33 vaccinators, each of whom had, on an average, 49,369 persons to work among. In these States 51,380 persons were primarily vaccinated and 9,140 revaccinated, the successful cases being 48,392 and 5,976 and the percentages of success being 94·18 and 65·38 respectively. The rate per mille of population protected was 32·95. Each vaccinator on an average vaccinated 18·34 persons. The total expenditure for vaccination was Rs. 15,267-10-6 or annas 4 and pies 6 per each successful case.

Gujarát Registration District.

78. The Gujarát Registration District comprises the Collectorates of Surat Broach, Kaira, Panch Maháls and Ahmedabad, and the Native States of Rewa Kántha, Mahi Kántha, Cambay, the Surat Agency and Jambughoda. It has a population of 4,382,067 persons and is administered by a Deputy Sanitary Commissioner, who has under his orders six Inspectors of Sanitation and Vaccination, 2 clerks, 80 vaccinators and candidates and 84 peons. Each vaccinator has on an average a population of 54,775 persons. There were 139,416 persons primarily vaccinated and 5,341 revaccinated with 135,695 succesful in primary and 3,082 in revaccination, the percentage of success to operations being 97·33 and 57·70 respectively. The protected per mille was 31·67. Each vaccinator vaccinated 1,930 persons on an average. The total cost was Rs. 42,880-7-0 and the average cost per each successful case was annas 4 and pies 11. There were in all 3 dispensaries wherein the vaccination work was performed by the medical officers. There were 596 deaths from small-pox during the year.

Surat.

79. In the Surat Zilla there were 11 vaccinators. Each vaccinator has on an average, a population of 59,089 persons. There were 21,133 persons primarily vaccinated and 657 revaccinated. The successful cases were 20,346 and 371 or 96·27 and 56·47 per cent. respectively. The rate of protection per mille of population was 31·87. Each vaccinator vaccinated on an average 1,981 persons. The total cost was Rs. 4,815-1-5 and the average cost per each successful case was annas 2 and pies 9. Small-pox caused 180 deaths in this zilla during the year under report.

Broach.

80. In the Broach Collectorate there were 6 vaccinators, each of whom had, on an average, a population of 56,915 persons. There were 10,573 persons primarily vaccinated and 495 revaccinated. The successful cases were 10,350 and 234 or 97·89 and 47·27 per cent. respectively. The rate of protection per mille of population was 30·99. Each vaccinator vaccinated 1,845 persons on an average. The total cost was Rs. 2,170-13-7 and the average cost per each successful case was annas 3 and pies 3. No vaccination work was performed by the dispensary Medical Officer. There were 36 deaths from small-pox during the year.

Kaira.

81. In the Kaira Zilla, there were 11 vaccinators, each of whom had, on an average, a population of 76,508 persons. There were 26,079 persons primarily vaccinated and 1,091 revaccinated. The successful cases under each kind were 25,765 and 596, and their percentages were 98·80 and 54·63 respectively. The rate of protection per mille of population was 30·24. Each vaccinator on an average vaccinated 2,470 persons. The total cost for the zilla was Rs. 4,002-12-9 and the average cost per each successful case was annas 2 and pies 3. There were 70 deaths from small-pox in this zilla during the year.

82. In the Panch Mahâls there are 7 vaccinators, each of whom has, on an average, a population of 44,774 persons. Out of 11,739 persons primarily vaccinated and 203 revaccinated, 11,509 and 140 or 98·04 and 68·96 per cent. were successful. The rate of protection per mille of population was 37·17. Each vaccinator on an average vaccinated 1,706 persons. The total expenditure was Rs. 2,339-3-10 which, when divided amongst the successful cases, gives the rate of annas 3 and pies 2 per each case. No vaccination work was performed by the dispensary Medical Officer in this zilla. There were 123 deaths from small-pox during the year.

Panch Mahâls.

83. In the Ahmedabad Zilla, there were 15 vaccinators, each of whom had, on an average, a population of 61,427 persons. There were 28,983 persons primarily vaccinated and 2,087 revaccinated. The successful cases were 27,646 under primary and 1,065 under revaccination, or 95·39 and 51·03 per cent. respectively. The rate of protection per 1,000 of population was 31·15. Each vaccinator, on an average, vaccinated 2,071 persons. The total cost was Rs. 5,074-5-3. The average cost per each successful case was annas 2 and pies 10. The dispensary Medical Officer at Khárâghoda vaccinated 23 persons primarily and 162 revaccinated during the year. 187 fatal cases from small-pox were returned in the Collectorate in the year.

Ahmedabad.

84. The States of Rewa Kántha, Mahi Kantha, Cambay, the Surat Agency and Jambughoda have a collective population of 1,257,083 persons. There were 25 vaccinators, and the average population to each was 50,283. The number of primarily vaccinated was 40,084 and of revaccinated, 799 ; of these, 39,282 or 98·00 per cent. and 668 or 83·60 per cent. were successfully operated on. Protection was afforded to 31·78 per 1,000 of population. Each vaccinator on an average operated upon 1,635 persons. In Sachin and Jambughoda States vaccination was performed by the Local Fund vaccinators. The total cost in all the States was Rs. 7,950-0-8 or annas 4 and pies 2 per each successful case. The Medical Officer at Sádra Dispensary in the Mahi Kántha State primarily vaccinated 215 persons and revaccinated 48.

Native States in the Gujarát Registration District.

85. The Sind Registration District comprises the Collectorates of Karáchi, Hyderabad, Shikárpur, Thar and Párkar, the Upper Sind Frontier and the State of Khairpur. It has an area of 54,123 square miles and a population of 3,003,711 persons. It is administered by a Deputy Sanitary Commissioner, who has, under his orders, one Superintendent of Vaccination, six Inspectors of Sanitation and Vaccination, 2 clerks, 71 vaccinators and candidates and 86 peons. Each vaccinator has, on an average, a population of 42,306 persons. Those primarily vaccinated numbered 99,190 and revaccinated 21,387, the successful cases under each head being 90,962 and 13,170 respectively. The percentage of successful vaccinations to the total operations was 91·71 under primary and 61·58 under revaccination. The rate of protection per 1,000 of population was 34·67. Each vaccinator, on an everage, vaccinated 1,827 persons. The total cost was Rs. 51,701-15-6 and for each successful it was annas 7 and pies 11. No vaccination was performed by the Medical officers in charge of dispensaries. The deaths from small-pox in Sind were 433 in the year under report.

Sind Registration District.

86. In the Karáchi Zilla, there are 17 vaccinators, each of whom has, on an average, a population of 33,228 persons. They performed 19,969 primary and 7,188 revaccinations, the percentages of success being 92·44 and 73·94 respectively. The rate per 1,000 of population was 42·09. The total cost amounted to Rs. 9,571-1-5 and the cost of each successful case was annas 6 and pies 5 or 4 pies more than last year. Each vaccinator vaccinated on an average 1,597 persons. There were 99 deaths from small-pox in the year.

Karáchi.

87. In the Hyderabad Zilla, there are 13 vaccinators, each of whom has, on an average, a population of 68,033 persons. There were 25,038 persons primarily vaccinated and 3,863 revaccinated ; of these, 22,606 or 90·29 and 1,867 or 48·33 per cent.

Hyderabad.

were successfully operated on. The rate of protection per mille of population was 27·67. Each vaccinator on an average vaccinated 2,223 persons. The total cost amounted to Rs. 5,429-12-2, which gives for each successful case annas 3 and pies 7 against annas 4 last year. Small-pox caused 233 deaths during the year.

Thar and Párkar.

88. The Thar and Párkar District has a population of 298,203 persons. There are 8 vaccinators, each of whom works among 41,552 persons on an average. They vaccinated 12,183 primarily and revaccinated 1,983. The rate of success in each case was 11,361 or 93·25 and 1,358 or 68·48 per cent. respectively. Each vaccinator, on an average, vaccinated 1,771 persons. The rate per mille of population vaccinated was 38·26. The total cost was Rs. 3,121-5-6 and the cost per each successful case was 3 annas and 11 pies against 4 annas and 4 pies last year. There were 20 deaths from small-pox.

Shikárpur.

89. There are, in the Shikárpur Zilla, 20 vaccinators, each of whom has, on an average, a population of 41,169 persons. There were 26,902 persons primarily vaccinated and 5,708 revaccinated, the successful cases being 25,098 or 93·29 per cent. and 29·71 or 52·05 per cent. respectively. The rate of protection per 1,000 of population was 34·09 against 32·55 in the preceding year. Each vaccinator, on an average, vaccinated 1,883 persons. The total cost under vaccination head was Rs. 7,410-4-7 and the cost for each successful case was 3 annas and 8 pies. Small-pox caused 62 deaths.

Upper Sind Frontier.

90. There are 4 vaccinators employed in the Upper Sind Frontier District, each of whom has, on an average, a population of 43,637 persons. They performed 5,662 primary and 1,312 revaccinations, the successful cases being 4,781 or 84·44 per cent. and 700 or 53·35 per cent. respectively. The rate per 1,000 of population protected was 31·40. The total cost was Rs. 1,466-6-11 and the cost per each successful case was 4 annas and 3 pies against 4 annas and 11 pies last year. 19 deaths from small-pox were reported during the year.

Khairpur Native State in Sind.

91. The Khairpur State has a population of 131,937 persons. There are 4 vaccinators. They primarily vaccinated 5,554 and revaccinated 160; of these, 5,124 or 92·26 and 96 or 60·0 per cent. respectively were successful in each kind. Each vaccinator, on an average, vaccinated 1,428 persons, and the rate per 1,000 of population vaccinated was 39·56. The total cost was Rs. 1,951-6-11, and the cost of each successful case was annas 6 against annas 6 and pies 2 last year.

Aden.

92. Aden has an area of 11·6 square miles and a population of 44,079 persons. The Municipality defrays the cost of two male and one female vaccinators and one peon, who work under the immediate supervision of the Civil Surgeon. Vaccination stations are established in different parts of the settlement. There were 2,729 primary vaccinations and 93 revaccinations, of which 1,611 and 80 were successful. The total cost was Rs. 925-6-5, and the average cost per each successful case was annas 8 and pies 9. The Dispensary work of Shaik Othmán was performed by a municipal vaccinator.

Bushire and Muskat.

93. There is not a separate vaccinator for Bushire or Muskat. The vaccination work was performed by the Dispensary Medical Officers at these places. In the Residency Dispensary, Bushire, there were 338 persons primarily vaccinated, of which 314 or 92·90 per cent. were successful. In Muskat Dispensary 354 persons with 353 successful were vaccinated primarily. There was no revaccination either in Bushire or in Muskat.

Tour of the Deputy Sanitary Commissioner, Western Registration District.

94. At the commencement of the year the camp of the Deputy Sanitary Commissioner, Western Registration District, was in Chopda Táluka and from thence moved to Shirpur Táluka, and then passing through Sindkhed Táluka to the Shaháda, Taloda, Nandurbár and Dhulia tálukas of the Khándesh



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Collectorate, he visited Málegaon and Yeola and returned to Násik at the approach of the monsoon. After the monsoon he went to Panvel *viâ* Thána and then passed through the Khálápur Petha to Pen and Alibág tálukas and then inspected the work of Nágothna Petha, Roha, Mángaon and Mahád tálukas of the Kolába Collectorate. He then proceeded to the Janjira State and then returned to the Karjat Táluka of the Kolába Collectorate *viâ* Bombay; and after inspecting Karjat Táluka, he went to Kalyán Táluka and inspected the work of Sálsette and Bhiwndi tálukas, and from that place he went to the Murbád and Sháhápur talukas of the Thána Collectorate, and thence proceeded to the Igatpuri and Násik tálukas. After this he inspected Niphád and Dindori vaccinators' work and went to Báglán Táluka, and thence proceeded to Kalvan Táluka at the close of the year. In all 1,809 miles were travelled by him in 121 days and 7,512 children inspected in 205 villages. More than a month of the touring season was lost as the charge was held by the Civil Surgeon, Násik, whose duties did not permit inspection work.

Tour of the Deputy Sanitary Commissioner, Central Registration District.

95. The Deputy Sanitary Commissioner, Central Registration District visited the tálukas of Indápur, Khed, Bhimthadi, Haveli, and Máwal of the Poona Zilla; Nagar, Jamkhed and Karjat of the Ahmednagar Zilla; Sholápur, Bársi, Mádha, Karmála, Pandharpur, Sángola and Málsiras of the Sholápur Zilla; Khatáv, Mán, Válva, Tásgaon and Khánápur of the Sátára Zilla; Vengurla, Málwan, Devgad Rájápur, Rátnágiri and Sangameshvar of the Rátnágiri Zilla; and Akalkot, Bhor, Phaltan and Aundh Native States. The total number of children inspected during the year was 10,059 in 250 villages and the number of miles travelled was 3,304 in 234 days.

Tour of the Deputy Sanitary Commissioner, Southern Registration District.

96. During the month of April 1895 Surgeon Major Channer inspected the work of the Belgaum town and Sháhápur táluka vaccinator of the Sángli State. He then passed through Honávar and Siddápur tálukas of the Kánara Collectorate. In May, Siddápur, Sirsi and Yellápur tálukas were visited, and he passed through tálukas of Bankápur and Hubli, returning to head-quarters on the 24th May. In July, the dafters (records) of Khánápur, Kod and Ron vaccinators were inspected. He then left for Gudgeri of the Miraj Junior State. From the 22nd to the end of the month he inspected the dafters and work of the Shirhatti Táluka vaccinator. In August he passed through Bankápur, Gudgeri, Karajgi, Shirhatti and Gadag tálukas, returning to Belgaum on the 23rd. In September he inspected the Belgaum Animal Depôt, a new site for the slaughter yard, the dafter (records) of the Chikodi Táluka vaccinator and also of Sángli and Kurundvád. In October he visited villages of the Sháhápur Táluka, and inspected the records of the Navalgund Táluka vaccinator as well as Supa and Kumta vaccinators'. In November and December he inspected Supa, Belgaum, Sampgaon, Dhárwár, Hubli, Kalghatgi, Miraj, Kolhápur, Sángli and Belgaum talukas. In January 1896 he marched through Gadag, Lakhmeshvar of the Miraj Senior State and Gudgeri and Miraj Junior State, returning to Belgaum on 31st. In February and March he passed through Karajgi, Ránebennur, Kod, Hángal, Bankápur and Hubli talukas of the Dhárwár Collectorate, returning to Belgaum and Sháhápur tálukas. On 24th March Dr. Channer delivered over charge to Dr. Lyons, Civil Surgeon, Belgaum, who was in charge of the office till the end of the year. In all he travelled 3,016 miles in 130 days and inspected 7,567 children in 135 villages.

Tour of the Deputy Sanitary Commissioner, Gujarát Registration District.

97. The Deputy Sanitary Commissioner, Gujarát Registration District, travelled through and inspected the tálukas of Surat, Broach, Kaira and Panch Maháls, and also the Native States of Bálásinor, Jambughoda, Chota Udeypur, Sankheda Mewas and Rájpipla of Rewa Kántha Agency, and in Bávisi Táluka of the Mahi Kántha Agency. In all, he inspected the work of 31 vaccinators from 37 camps, travelled 1,502 miles in 196 days and inspected 11,690 children in 276 villages during the year.

Tour of the Deputy Sanitary Commissioner, Sind Registration District.

98. In the months of April and May the Deputy Sanitary Commissioner, Sind, was in the Karáchi Collectorate. During the hot weather months the towns of Karáchi, Hyderabad, Kotri, Lárkhána, Sukkur, Rohri, Shikárpur, Jacobabad and Tando Muhammadkhan were inspected. On November 6th, 1895, the cold weather tour was commenced in Hyderabad District; the north-eastern portion of the Thár and Párkar District, the northern divisions of the Hyderabad District, the Khairpur State, the Rohri Division (Shikárpur District), the 4 tálukas of the Upper Sind Frontier District were visited in succession; the Deputy Sanitary Commissioner's camp being at Shahadádpur (Upper Sind Frontier) on the 31st of March 1896. He travelled, 5,750 miles in 180 days and inspected 25,797 children in 584 villages.

Compulsory Vaccination Act in Bombay City.

99. In the city of Bombay the Compulsory Vaccination Act (No. I of 1877) has been in force for 18 years and is worked well, but proper accommodation is required. The following table shows the progress in the protection of infants during the last 20 years, the first two being before, and the last 18 after the introduction of the Act:—

| Years. | | Births returned as having been registered. | Deaths registered among children under one year old. | Children available for Vaccination. | | Children under one year successfully vaccinated. | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Births minus Deaths. | At the rate of 31 per 1,000 of population. | Number. | Ratio per 100 on those in Column 4. | Ratio per 100 on those in Column 5. |
| 1 | | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Before the introduction of the Act. | 1876-77 ... | 13,466 | 6,179 | 7,237 | 19,977 | 9,840 | 135·03 | 49·26 |
| | 1877-78 ... | 13,720 | 7,781 | 5,939 | 19,977 | 7,212 | 121·43 | 36·10 |
| After the introduction of the Act. | 1878-79 ... | 13,896 | 6,417 | 7,479 | 19,977 | 6,558 | 87·69 | 32·83 |
| | 1879-80 ... | 14,331 | 5,274 | 9,067 | 19,977 | 7,825 | 86·30 | 39·17 |
| | 1880-81 ... | 16,997 | 6,104 | 10,893 | 19,977 | 10,416 | 95·62 | 52·14 |
| | 1881-82 ... | 16,381 | 6,279 | 10,102 | 23,969 | 12,017 | 118·96 | 50·14 |
| | 1882-83 ... | 15,094 | 5,720 | 9,374 | 23,969 | 14,940 | 159·38 | 62·23 |
| | 1883-84 ... | 14,932 | 6,514 | 8,418 | 23,969 | 12,331 | 146·48 | 51·45 |
| | 1884-85 ... | 14,377 | 6,340 | 8,037 | 23,969 | 13,449 | 167·34 | 56·11 |
| | 1885-86 ... | 14,685 | 6,265 | 8,420 | 23,969 | 13,547 | 160·89 | 56·52 |
| | 1886-87 ... | 14,679 | 5,899 | 8,780 | 23,969 | 13,270 | 151·14 | 52·01 |
| | 1887-88 ... | 15,166 | 5,903 | 9,263 | 23,969 | 14,588 | 157·50 | 60·86 |
| | 1888-89 ... | 16,470 | 6,582 | 9,888 | 23,969 | 14,201 | 143·62 | 59·25 |
| | 1889-90 ... | 15,240 | 6,527 | 8,713 | 23,969 | 14,179 | 162·73 | 59·16 |
| | 1890-91 ... | 15,568 | 5,941 | 9,627 | 23,969 | 15,629 | 162·34 | 65·20 |
| | 1891-92 ... | 15,518 | 7,420 | 8,098 | 25,474 | 16,478 | 203·48 | 64·29 |
| | 1892-93 ... | 15,485 | 7,768 | 7,717 | 25,474 | 15,891 | 205·92 | 62·38 |
| | 1893-94 ... | 15,218 | 6,347 | 8,871 | 25,474 | 13,789 | 155·44 | 54·13 |
| | 1894-95 ... | 15,058 | 7,451 | 7,607 | 25,474 | 14,355 | 188·71 | 56·35 |
| | 1895-96 ... | 15,684 | 4,422 | 11,262 | 25,474 | 14,401 | 127·87 | 56·53 |

Compulsory vaccination in Karáchi town.

100. In the town of Karáchi also, the Compulsory Vaccination Act (No. IV of 1879) has been in force for the last 16 years, and the following table shows the yearly improvement. During the year under report 3,455 children under one year of age were successfully vaccinated, the births minus deaths under one year of age being 3,244.

| Years. | Births returned as having been registered. | Deaths registered among children under one year. | Children available for vaccination. | | Children under 1 Year successfully vaccinated. | | |
|---|---|---|---|---|---|---|---|
| | | | Births minus deaths. | At the rate of 31 per 1,000. | Number. | Ratio per 100 in Column 4. | Ratio per 100 on those in Column 5. |
| 1880-81 ... ... | 1,878 | 309 | 1,569 | 2,118 | 1,917 | 122·18 | 90·51 |
| 1881-82 ... ... | 2,405 | 489 | 1,916 | 2,118 | 2,516 | 131·32 | 118·79 |
| 1882-83 ... ... | 2,985 | 514 | 2,471 | 2,118 | 2,827 | 114·41 | 133·47 |
| 1883-84 ... ... | 3,273 | 728 | 2,545 | 2,118 | 2,693 | 105·42 | 126·68 |
| 1884-85 ... ... | 3,189 | 706 | 2,483 | 2,118 | 3,003 | 120·94 | 141·78 |
| 1885-86 ... ... | 3,056 | 635 | 2,421 | 2,118 | 3,084 | 127·39 | 145·68 |
| 1886-87 ... ... | 3,340 | 841 | 2,499 | 2,118 | 3,015 | 120·65 | 142·35 |
| 1887-88 ... ... | 3,690 | 959 | 2,731 | 2,118 | 3,175 | 116·26 | 149·91 |
| 1888-89 ... ... | 3,722 | 935 | 2,787 | 2,118 | 3,647 | 130·86 | 172·19 |
| 1889-90 ... ... | 3,798 | 1,081 | 2,717 | 2,118 | 3,246 | 119·04 | 153·26 |
| 1890-91 ... ... | 4,022 | 1,018 | 3,004 | 3,261 | 3,347 | 111·42 | 102·63 |
| 1891-92 ... ... | 4,263 | 1,226 | 3,037 | 3,261 | 3,545 | 116·73 | 108 71 |
| 1892-93 ... ... | 4,343 | 1,482 | 2,861 | 3,261 | 2,967 | 103·70 | 90·98 |
| 1893-94 ... ... | 4,036 | 1,102 | 2,934 | 3,261 | 3,032 | 103·34 | 92·98 |
| 1894-95 ... ... | 4,574 | 1,394 | 3,180 | 3,261 | 3,310 | 104·09 | 101·50 |
| 1895-96 ... ... | 4,622 | 1,378 | 3,244 | 3,261 | 3,455 | 106·50 | 105·95 |

Aid received from Civil, Revenue, Political and other officers.

101. The Civil, Revenue and Political officers have rendered aid when required to the officers of this department.

I would bring to the favourable notice of Government the tact and energy shown in the discharge of their duties by the supervising officers, Drs. Channer, Street, Dyson, Arnim, and Anderson, and Assistant Surgeon S. V. Kantak. Drs. Dyson and Arnim have shown increased results for the year in their districts, and Drs. Channer and Street are meeting with gratifying results in pushing vaccination with animal lymph. Assistant Surgeon S. V. Kantak and his staff have shown great zeal in coping with the large amount of work caused by the rush for vaccination and revaccination due to the prevalence of small-pox in Bombay.

Dr. Street also records that "Mr. Trimbak Anant, 1st Class Inspector, has retired after more than forty-two years of very meritorious service. His experience and advice will be a loss to the department. He was connected with the Vaccination Department in its infancy and did much good work in extending vaccination. He carried out the details of the introduction of animal vaccination in Poona City and Cantonment and also its extension for the first time with the rural districts of this Circle and, I believe, of the Presidency, and this he did with much success."

My Assistant Mr. Keess and the office establishment worked hard and gave me every assistance.

J. W. CLARKSON, Surgeon-Lieutenant-Colonel,
Sanitary Commissioner.

*Sanitary Commissioner's Office,*
*Bombay, 2nd June 1896.*

# APPENDIX I.

## A.—VACCINATION RETURN.

Statement No. I. showing Particulars of Vaccination in the Bombay Presidency during the year 1895-96.

| Number. | Circles and Districts. | Population of Districts according to Census of 1891. | Average population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator | Primary Vaccinations. | | | | Re-vaccination. | | Percentage of Successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all ages. | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | THE WESTERN REGISTRATION DISTRICT. | | | | Males. | Females. | Total. | | | | | | | | | | | | | | |
| | KHA'NDESH COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 1 | Nandurbár Town, Local Fund. | 7,670 | 16,674 | ... | P. 75<br>R. 2 | 71<br>... | 146<br>2 | 148 | 147 | 60 | 59 | 120 | 2 | 1 | 81·68 | 50·00 | 15·77 | 120 | 15·65 | 6 | ·78 |
| 2 | Dhulia Town, Municipal ... | 21,880 | 11,891 | 1 | P. 470<br>R. 75 | 495<br>31 | 965<br>106 | 1,071 | 965 | 695 | 167 | 862 | 106 | 15 | 89·33 | 14·15 | 40·08 | 758 | 34·65 | 7 | ·32 |
| 3 | Chopdá Town, Local Fund ... | 15,655 | 32,615 | ... | P. 161<br>R. ... | 165<br>... | 326<br>... | 326 | 326 | 179 | 110 | 289 | ... | ... | 88·65 | ... | 18·46 | 315 | 20·12 | 1 | ·06 |
| 4 | Nasirabad Town do. ... | 11,462 | 67,424 | 1 | P. 96<br>R. ... | 118<br>... | 214<br>... | 214 | 214 | 156 | 50 | 206 | ... | ... | 96·26 | ... | 17·89 | 308 | 26·87 | 1 | ·09 |
| 5 | In the 22 Rural Circles, Local Fund ... ... ... ... | 1,404,184 | 129 | 28 | P. 21,382<br>R. 660 | 21,860<br>382 | 43,242<br>1,042 | 1,582 | 43,371 | 30,272 | 8,565 | 39,082 | 1,043 | 628 | 90·11 | 60·21 | 28·27 | 37,774 | 26·90 | 417 | ·30 |
| | Total ... | 1,460,851 | 134 | 30 | P. 22,184<br>R. 737 | 22,709<br>413 | 44,893<br>1,150 | 1,535 | 45,023 | 31,362 | 8,951 | 40,559 | 1,151 | 644 | 90·09 | 55·95 | 28·20 | 39,275 | 26·89 | 432 | ·30 |
| | NA'SIK COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 6 | Yeola Town ... ... ... | 18,861 | 85,732 | 1 | P. 261<br>R. 19 | 311<br>1 | 572<br>20 | 592 | 572 | 453 | 62 | 519 | 20 | 19 | 90·73 | 95·00 | 28·52 | 601 | 31·86 | 9 | ·48 |
| 7 | Násik do. ... ... ... | 24,429 | 43,623 | 1 | P. 380<br>R. 36 | 396<br>14 | 776<br>50 | 826 | 779 | 503 | 252 | 761 | 50 | 49 | 97·69 | 98·00 | 33·11 | 796 | 32·58 | 3 | ·12 |
| 8 | Deoláli Cantonment ... ... | 4,104 | ... | ... | P. 96<br>R. 1 | 71<br>... | 167<br>1 | 168 | 167 | 59 | 86 | 153 | 1 | 1 | 91·61 | 100·00 | 37·52 | 29 | 7·07 | ... | ... |
| 9 | Málegaon ... Cantonment ... | 3,759 | 3,007 | ... | P. 72<br>R. 8 | 76<br>2 | 148<br>10 | 596 | 148 | 123 | 18 | 141 | 10 | 2 | 95·27 | 20·00 | 38·42 | 147 | 39·11 | 1 | ·27 |
| | Municipal ... | | | 1 | P. 221<br>R. 15 | 193<br>9 | 414<br>24 | | 414 | 285 | 104 | 391 | 24 | 24 | 94·44 | 100·00 | 26·77 | 352 | 93·64 | ... | ... |
| 10 | In the 12 Rural Circles. Local Fund | 792,429 | 133 | 16 | P. 12,300<br>R. 384 | 12,432<br>129 | 24,732<br>513 | 1,683 | 24,749 | 18,274 | 4,621 | 22,982 | 513 | 340 | 92·86 | 66·28 | 30·02 | 22,487 | 28·95 | 140 | ·18 |
| | Total ... | 843,582 | 142 | 18 | P. 13,330<br>R. 463 | 13,479<br>155 | 26,809<br>618 | 1,524 | 26,829 | 19,697 | 5,143 | 24,947 | 618 | 435 | 92·94 | 70·39 | 30·09 | 24,412 | 28·94 | 153 | ·18 |
| | THA'NA COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 11 | Kalián Town, Municipal ... | 12,608 | 5,275 | 1 | P. 209<br>R. 3 | 159<br>1 | 368<br>4 | 635 | 368 | 265 | 64 | 331 | 4 | 4 | 89·94 | 100·00 | 26·57 | 318 | 25·22 | 6 | ·48 |
| 12 | Bhiwandi do. ... ... | 14,387 | 38,884 | | P. 142<br>R. ... | 121<br>... | 263<br>... | | 263 | 183 | 56 | 240 | ... | ... | 91·25 | ... | 16·68 | 249 | 17·31 | ... | ... |
| 13 | Thána do. ... ... | 17,455 | 3,828 | 1 | P. 638<br>R. 1,106 | 459<br>66 | 1,097<br>1,172 | 2,269 | 1,097 | 781 | ... | 1,097 | 1,172 | ... | 100·00 | ... | 62·84 | 861 | 49·33 | 4 | ·23 |
| 14 | Bándra do. ... ... | 18,759 | 8,141 | 1 | P. 194<br>R. 194 | 197<br>166 | 391<br>360 | 751 | 391 | 268 | 65 | 337 | 360 | 183 | 86·18 | 50·83 | 27·72 | 310 | 16·53 | ... | ... |
| 15 | In the 9 Rural Circles. Local Fund | 756,371 | 215 | 14 | P. 9,468<br>R. 239 | 9,495<br>157 | 18,963<br>396 | 1,445 | 18,989 | 11,570 | 6,268 | 18,110 | 396 | 279 | 95·37 | 70·45 | 25·39 | 19,369 | 85·11 | 223 | ·29 |
| | Municipal ... | | | | P. 412<br>R. 8 | 449<br>5 | 861<br>13 | | 862 | 612 | 192 | 806 | 13 | 12 | 93·50 | 12·30 | | 1,003 | 1·32 | ... | ... |
| | Total ... | 819,580 | 230 | 17 | P. 11,063<br>R. 1,550 | 10,880<br>395 | 21,943<br>1,945 | 1,405 | 21,970 | 13,679 | 6,645 | 20,921 | 1,945 | 478 | 95·22 | 34·57 | 26·10 | 22,110 | 26·98 | 233 | ·28 |

| Number. | Circles and Districts. | Population of Districts according to Census of 1891. | Average Population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. | Primary Vaccinations. | | | | Re-vaccination. | | Percentage of Successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Rate per 1,000. |
| | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all Ages. | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | THE WESTERN REGISTRATION DISTRICT—*contd.* | | | | Males. | Females. | Total. | | | | | | | | | | | | | | |
| | KOLA'BA COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 16 | Mahád Town, Local Fund ... | 6,870 | 13,740 | ... | P. 160<br>R. 2 | 167<br>8 | 327<br>10 | 337 | 327 | 208 | 115 | 327 | 10 | 10 | 100·00 | 100·00 | 49·05 | 179 | 26·06 | 4 | ·58 |
| 17 | Panvel do. do. ... | 10,420 | 52,100 | ... | P. 76<br>R. 5 | 93<br>1 | 169<br>6 | 175 | 169 | 77 | 89 | 167 | 6 | 6 | 92·90 | 100·00 | 16·60 | 163 | 15·64 | 6 | ·58 |
| 18 | Alibág do. do. ... | 5,888 | 9,813 | ... | P. 64<br>R. 16 | 69<br>4 | 133<br>20 | 153 | 134 | 70 | 63 | 133 | 20 | 11 | 99·25 | 55·00 | 24·46 | 116 | 19·70 | 2 | ·34 |
| 19 | In the 8 Rural Circles, Local Fund. | 571,694 | 250 | 14 | P. 8,247<br>R. 877 | 7,810<br>1,512 | 16,057<br>2,389 | 1,318 | 16,062 | 12,358 | 3,281 | 15,691 | 2,389 | 1,448 | 97·69 | 60·61 | 29·98 | 15,582 | 27·21 | 145 | ·25 |
| | Total ... | 594,872 | 270 | 14 | P. 8,547<br>R. 900 | 8,139<br>1,525 | 16,6 6<br>2,425 | 1,365 | 16,692 | 12,713 | 3,548 | 16,318 | 2,425 | 1,475 | 97·75 | 60·82 | 29 91 | 16,040 | 26·96 | 157 | ·26 |
| | NATIVE STATES— | | | | | | | | | | | | | | | | | | | | |
| 20 | Dáng Territory... ... ... | 32,920 | 50 | 1 | P. 597<br>R. 3 | 582<br>... | 1,179<br>3 | 1,182 | 1,179 | 153 | 535 | 1,100 | 3 | 3 | 93·30 | 100·00 | 33·51 | 1,398 | 45·63 | ... | ... |
| 21 | Jawhár ... ... ... ... | 52,831 | 99 | 1 | P. 830<br>R. 73 | 807<br>405 | 1,637<br>478 | 2,115 | 1,637 | 1,306 | 331 | 1,637 | 478 | 478 | 100·00 | 100·00 | 40·03 | 2,007 | 37·99 | ... | ... |
| 22 | Janjira ... ... ... ... | 81,780 | 252 | 2 | P. 1,255<br>R. 533 | 1,204<br>274 | 2,459<br>812 | 1,635 | 2,459 | 2,160 | 258 | 2,434 | 812 | 521 | 98·98 | 64·16 | 36·13 | 2,883 | 35·25 | ... | ... |
| 23 | Surgána ... ... ... ... | 12,398 | 34 | ... | ..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 104 | 8·39 | ... | ... |
| | Total ... | 179,929 | 96 | 4 | P. 2,682<br>R. 614 | 2,593<br>679 | 5,275<br>1,293 | 1,642 | 5,275 | 3,619 | 1,124 | 5,171 | 1,293 | 1,002 | 98·03 | 77·49 | 34·87 | 6,392 | 35·53 | ... | ... |
| | TOTAL BY ESTABLISHMENT IN WESTERN REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | | |
| | Cantonment ... ... ... | 7,863 | 629 | 1 | P. 168<br>R. 9 | 147<br>2 | 315<br>11 | 326 | 315 | 182 | 104 | 294 | 11 | 3 | 93·33 | 27·27 | 37·77 | 176 | 22·51 | 1 | ·13 |
| | Municipal ... ... ... | 163,129 | 6,634 | 6 | P. 2,927<br>R. 1,456 | 2,780<br>293 | 5,707<br>1,749 | 1,213 | 5,711 | 4,045 | 962 | 5,344 | 1,749 | 306 | 93·59 | 17·50 | 39·27 | 5,581 | 34·21 | 29 | ·29 |
| | Local Fund ... ... ... | 3,547,893 | 157 | 72 | P. 52,029<br>R. 2,185 | 52,280<br>2,193 | 104,309<br>4,378 | 1,510 | 104,488 | 73,224 | 23,221 | 97,107 | 4,379 | 2,723 | 92·94 | 62·19 | 27·99 | 96,080 | 27·28 | 945 | ·26 |
| | Native States ... ... ... | 179,929 | 96 | 4 | P. 2,682<br>R. 614 | 2,593<br>679 | 5,275<br>1,293 | 1,642 | 5,275 | 3,619 | 1,124 | 5,171 | 1,293 | 1,002 | 98·03 | 77·49 | 34·87 | 6,392 | 35·53 | ... | ... |
| | Grand Total ... | 3,898,814 | 151 | 83 | P. 57,806<br>R. 4,264 | 57,800<br>3,167 | 115,606<br>7,431 | 1,482 | 115,789 | 81,070 | 25,411 | 107,916 | 7,432 | 4,034 | 93·20 | 54·27 | 28·97 | 108,229 | 27·76 | 975 | ·25 |
| | THE PRESIDENCY CIRCLE. | | | | | | | | | | | | | | | | | | | | |
| 24 | Bombay City (Municipal) ... | 821,764 | 37,353 | 8* | P. 9,710<br>R. 7,090 | 9,312<br>1,823 | 19,022<br>8,913 | 3,492 | 19,102 | 14,401 | 2,857 | 17,760 | 8,913 | 2,680 | 93·36 | 30·06 | 24·87 | 20,436 | 24·87 | 283 | ... |

* Exclusive of one Head Vaccinator who does not work.

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | THE CENTRAL REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | |
| | AHMEDNAGAR COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 25 | Ahmednagar Town Municipal | 36,083 | 72,166 | 1 | P. 843<br>R. 253 | 721<br>19 | 1,564<br>272 | 1,836 | 1,564 | 1,169 | 250 | 1,535 | 272 | 262 | 98·15 | 96·32 | 49·83 | 1,698 | 47·06 | 8 | 0·22 |
| 26 | Do. Cantonment ... | 5,606 | ... | ... | P. 86<br>R. 211 | 77<br>5 | 163<br>216 | 379 | 163 | 101 | 50 | 157 | 216 | 163 | 96·32 | 75·46 | 67·61 | 159 | 33·61 | ... | ... |
| 27 | Sangamner Town Local Fund | 9,733 | 16,497 | ... | P. 197<br>R. ... | 247<br>... | 444<br>... | 444 | 444 | 271 | 66 | 337 | ... | ... | 75·90 | ... | 34·62 | 353 | 36·27 | 1 | 0·10 |
| 28 | In the 11 Rural Circles Local Fund. | 837,333 | 127 | 14 | P. 15,381<br>R. 198 | 15,454<br>11 | 30,835<br>209 | 2,217 | 30,836 | 24,471 | 3,349 | 27,872 | 209 | 107 | 90·39 | 51·20 | 33·41 | 27,548 | 32·90 | 55 | 0·05 |
| | Total ... | 888,755 | 135 | 15 | P. 16,507<br>R. 662 | 16,499<br>35 | 33,006<br>697 | 2,247 | 33,007 | 26,012 | 3,715 | 29,901 | 697 | 532 | 90·59 | 76·33 | 34·24 | 29,758 | 33·48 | 64 | 0·07 |
| | POONA COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 29 | Poona City Municipal ... | 118,790 | 24,645 | 2 | P. 1,873<br>R. 48 | 1,733<br>25 | 3,606<br>73 | 1,840 | 3,606 | 2,343 | 1,144 | 3,546 | 73 | 45 | 98·34 | 61·64 | 30·23 | 3,748 | 31·55 | 40 | 0·34 |
| 30 | Poona and Kirkee Cantonment. | 46,045 | 4,978 | 2 | P. 1,365<br>R. 538 | 779<br>20 | 2,144<br>558 | 1,351 | 2,144 | 1,491 | 526 | 2,051 | 558 | 327 | 95·66 | 58·60 | 51·69 | 2,311 | 50·19 | 2 | 0·04 |
| 31 | Junnar Town Local Fund ... | 11,905 | 33,069 | ... | P. 181<br>R. 2 | 191<br>... | 372<br>2 | 374 | 372 | 221 | 135 | 359 | 2 | 2 | 96·51 | 100·0 | 30·32 | 363 | 30·49 | 2 | 0·17 |
| 32 | In the 8 Rural Circles. Local Fund ... | 891,060 | 177 | 15 | P. 14,521<br>R. 216 | 14,162<br>7 | 28,683<br>223 | 1,927 | 28,690 | 21,343 | 4,668 | 26,083 | 223 | 146 | 90·94 | 65·76 | 29·82 | 28,090 | 31·52 | 108 | 0·12 |
| | In the 8 Rural Circles. Municipal ... | | | | P. 165<br>R. 694 | 78<br>52 | 243<br>746 | 989 | 243 | 135 | 51 | 199 | 746 | 142 | 81·89 | 19·03 | | 424 | 0·47 | ... | ... |
| | Total | 1,067,800 | 212 | 19 | P. 18,105<br>R. 1,498 | 16,943<br>104 | 35,048<br>1,602 | 1,929 | 35,055 | 25,533 | 6,524 | 32,238 | 1,602 | 662 | 91·98 | 41·32 | 30·81 | 34,936 | 32·72 | 152 | 0·14 |
| | SHOLÁPUR COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 33 | Sholápur Town Municipal ... | 61,915 | 9,525 | 1 | P. 1,320<br>R. 66 | 1,221<br>3 | 2,541<br>69 | 2,610 | 2,542 | 1,605 | 487 | 2,103 | 69 | 55 | 82·76 | 79·71 | 34·85 | 2,245 | 36·26 | 24 | 0·39 |
| 34 | Bársi do. ... ... | 20,569 | 1,327 | 1 | P. 352<br>R. ... | 392<br>... | 744<br>... | 744 | 744 | 453 | 123 | 579 | ... | ... | 77·82 | ... | 28·15 | 637 | 30·97 | 4 | 0·19 |
| 35 | Pandhrpur do. ... ... | 19,954 | 1,976 | 1 | P. 332<br>R. 4 | 315<br>3 | 647<br>7 | 654 | 647 | 483 | 129 | 614 | 7 | 3 | 95·00 | 42·86 | 30·92 | 740 | 37·04 | ... | ... |
| 36 | In the 7 Rural Circles. Local Fund .. | 648,251 | 143 | 11 | P. 11,381<br>R. 47 | 11,267<br>13 | 22,648<br>60 | 2,064 | 22,653 | 17,732 | 2,564 | 20,317 | 60 | 50 | 89·71 | 83·33 | 33·72 | 21,293 | 32·85 | 44 | 0·07 |
| | In the 7 Rural Circles. Municipal ... | | | | P. 806<br>R. 3 | 833<br>... | 1,639<br>3 | 1,642 | 1,646 | 1,390 | 96 | 1,494 | 3 | ... | 91·15 | ... | ... | 1,680 | 2·59 | ... | ... |
| | Total ... | 750,689 | 164 | 14 | P. 14,191<br>R. 120 | 14,028<br>19 | 28,219<br>139 | 2,026 | 28,232 | 21,663 | 3,399 | 25,107 | 139 | 108 | 88·97 | 77·41 | 33·59 | 26,595 | 35·43 | 72 | 0·10 |
| | SÁTÁRA COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 37 | Karád Town Local Fund ... | 12,086 | 32,655 | ... | P. 225<br>R. 17 | 202<br>... | 427<br>17 | 444 | 427 | 291 | 62 | 356 | 17 | 10 | 83·37 | 58·52 | 30·28 | 394 | 32·60 | ... | ... |
| 38 | Wái do. do. ... | 12,438 | 6,219 | ... | P. 163<br>R. ... | 145<br>... | 308<br>... | 308 | 308 | 168 | 135 | 307 | ... | ... | 99·66 | ... | 24·68 | 333 | 26·77 | 4 | 0·32 |
| 39 | Sátára Town Municipal ... | 25,750 | 31,402 | 1 | P. 373<br>R. 469 | 396<br>38 | 769<br>507 | 1,276 | 769 | 456 | 259 | 729 | 507 | 279 | 94·80 | 55·02 | 38·88 | 1,134 | 44·04 | 13 | 0·50 |
| 40 | In the 12 Rural Circles. Local Fund . | 1,175,715 | 244 | 19 | P. 21,329<br>R. 802 | 20,530<br>10 | 41,859<br>812 | 2,246 | 41,890 | 34,822 | 3,357 | 38,314 | 812 | 418 | 91·52 | 51·47 | 33·08 | 39,544 | 33·63 | 135 | 0·11 |
| | In the 12 Rural Circles. Municipal ... | | | | P. 95<br>R. ... | 90<br>... | 185<br>... | 185 | 185 | 163 | 19 | 183 | ... | ... | 98·91 | ... | ... | 110 | 0·09 | ... | ... |
| | Total ... | 1,225,989 | 254 | 20 | P. 22,185<br>R. 1,288 | 21,363<br>48 | 43,548<br>1,336 | 2,244 | 43,579 | 35,900 | 3,832 | 39,889 | 1,336 | 707 | 91·57 | 52·91 | 33·12 | 41,515 | 33·86 | 152 | 0·12 |

## Statement No. I., showing Particulars of Vaccination, &c.—*continued.*

| Number. | Circles and Districts. | Population of Districts according to Census of 1891. | Average Population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. | Primary Vaccinations. | | | | Re-vaccination. | | Percentage of Successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all Ages. | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | THE CENTRAL REGISTRATION DISTRICT—*continued.* | | | | Males. | Females. | Total. | | | | | | | | | | | | | | |
| | RATNÁGIRI COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 41 | Vengurla Town Municipal ... | 10,134 | ... | 1 | P. 193<br>R. 29 | 167<br>16 | 360<br>45 | 405 | 365 | 240 | 52 | 306 | 45 | 27 | 85·00 | 60·00 | 32·91 | 355 | 35·03 | 1 | 0·10 |
| 42 | Ratnágiri Town Local Fund ... | 14,303 | ... | ... | P. 183<br>R. 3 | 159<br>1 | 342<br>4 | 346 | 342 | 189 | 126 | 320 | 4 | 3 | 93·56 | 75·00 | 22·63 | 396 | 27·68 | 6 | 0·42 |
| 43 | In the 8 Rural Circles, Local Fund. | 1,081,489 | 276 | 15 | P. 13,969<br>R. 448 | 13,495<br>656 | 27,464<br>1,104 | 1,905 | 27,475 | 20,369 | 5,650 | 26,273 | 1,104 | 619 | 95·66 | 56·06 | 24·87 | 31,124 | 28·78 | 195 | 0·18 |
| | Total ... | 1,105,926 | 282 | 16 | P. 14,345<br>R. 480 | 13,821<br>673 | 28,166<br>1,153 | 1,832 | 28,182 | 20,798 | 5,828 | 26,899 | 1,153 | 649 | 95·50 | 57·59 | 24·91 | 31,875 | 28·82 | 202 | 0·18 |
| | NATIVE STATES— | | | | | | | | | | | | | | | | | | | | |
| 44 | Akalkot... ... ... ... | 75,774 | 152 | 1 | P. 1,011<br>R. 38 | 1,032<br>1 | 2,043<br>39 | 2,082 | 2,043 | 975 | 574 | 1,557 | 39 | 29 | 76·21 | 74·35 | 20·93 | 1,925 | 25·40 | ... | ... |
| 45 | Bhor (Pant Sachiv) ... ... | 155,669 | 105 | 3 | P. 2,105<br>R. 4 | 2,112<br>... | 4,217<br>4 | 1,407 | 4,217 | 3,239 | 737 | 3,981 | 4 | 1 | 94·40 | 25·00 | 25·58 | 4,733 | 30·40 | ... | ... |
| 46 | Aundha (Pant Pratinidhi) ... | 65,146 | 146 | 2 | P. 1,143<br>R. 2 | 1,118<br>... | 2,261<br>2 | 1,132 | 2,268 | 1,509 | 408 | 1,921 | 2 | 2 | 89·38 | 100·00 | 29·51 | 1,999 | 30·68 | ... | ... |
| 47 | Phaltan ... ... ... ... | 66,383 | 167 | 1 | P. 945<br>R. 3 | 1,004<br>... | 1,949<br>3 | 1,952 | 1,949 | 1,452 | 397 | 1,856 | 3 | 3 | 95·22 | 100·00 | 28·00 | 2,096 | 31·77 | ... | ... |
| 48 | Sávantvádi ... ... ... | 192,948 | 208 | 6 | P. 3,116<br>R. 1306 | 3,190<br>21 | 6,306<br>127 | 1,287 | 6,334 | 4,768 | 1,312 | 6,123 | 127 | 58 | 97·09 | 45·66 | 32·03 | 5,990 | 31·04 | ... | ... |
| | TOTAL BY ESTABLISHMENTS | IN THE | CENTRAL | REGI | STRATION | DISTRIC | T. | | | | | | | | | | | | | | |
| | Cantonment ... ... ... ... | 46,045 | 4,978 | 2 | P. 1,365<br>R. 538 | 779<br>20 | 2,144<br>558 | 1,351 | 2,144 | 1,491 | 526 | 2,051 | 558 | 327 | 95·66 | 58·60 | 51·64 | 2,311 | 50·19 | 2 | 0·04 |
| | Municipal ... ... ... ... | 298,801 | 34,746 | 8 | P. 6,438<br>R. 1,777 | 6,023<br>161 | 12,461<br>1,938 | 1,800 | 12,474 | 8,538 | 2,660 | 11,445 | 1,938 | 976 | 91·84 | 50·36 | 41·56 | 12,931 | 43·28 | 90 | 0·30 |
| | Local Fund ... ... ... ... | 4,694,313 | 185 | 74 | P. 77,530<br>R. 1,733 | 75,852<br>698 | 153,382<br>2,431 | 2,106 | 153,437 | 119,877 | 20,112 | 140,538 | 2,431 | 1,355 | 91·63 | 55·74 | 30·22 | 149,438 | 31·83 | 550 | 0·12 |
| | Native States ... ... ... | 555,920 | 148 | 12 | P. 8,320<br>R. 153 | 8,456<br>22 | 16,776<br>175 | 1,413 | 16,811 | 11,943 | 3,428 | 15,438 | 175 | 93 | 92·03 | 53·14 | 27·93 | 16,743 | 30·12 | ... | ... |
| | Total ... | 5,595,079 | 223 | 96 | P. 93,653<br>R. 4,201 | 91,110<br>901 | 184,763<br>5,102 | 1,978 | 184,866 | 141,849 | 26,726 | 169,472 | 5,102 | 2,751 | 91·72 | 53·92 | 30·78 | 181,423 | 32·43 | 642 | 0·10 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | THE SOUTHERN REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | |
| | BELGAUM COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 49 | Gokák Town ... ... ... | 12,106 | 31,041 | 1 | P. 212<br>R. 148 | 246<br>... | 458<br>148 | 1,077 | 469 | 212 | 169 | 386 | 148 | 2 | 84·28 | 1·35 | 32·05 | 483 | 39·90 | 1 | 0·08 |
| 50 | Athni do. ... ... ... | 10,416 | 11,322 | | P. 209<br>R. 52 | 206<br>4 | 415<br>56 | | 415 | 202 | 107 | 310 | 56 | 8 | 74·69 | 14·29 | 30·53 | 532 | 51·08 | 2 | 0·19 |
| 51 | Belgaum do. ... ... ... | 28,423 | 63,162 | 1 | P. 727<br>R. 158 | 542<br>7 | 1,269<br>165 | 1,858 | 1,269 | 811 | 189 | 1,108 | 165 | 116 | 87·31 | 70·30 | 43·06 | 1,997 | 70·26 | 6 | 0·21 |
| 52 | Do. Cantonment ... ... | 12,314 | ... | | P. 113<br>R. 223 | 72<br>16 | 185<br>239 | | 185 | 142 | 24 | 173 | 239 | 73 | 93·51 | 30·54 | 19·98 | 207 | 16·81 | 1 | 0·08 |
| 53 | In the 7 Rural Circles, Local Fund. | 950,002 | 204 | 17 | P. 17,701<br>R. 4,042 | 17,136<br>682 | 34,837<br>4,724 | 2,327 | 34,863 | 26,048 | 5,650 | 32,214 | 4,724 | 3,093 | 92·47 | 65·72 | 37·17 | 32,136 | 33·68 | 89 | 0·09 |
| | Total ... | 1,013,261 | 218 | 19 | P. 18,962<br>R. 4,623 | 18,202<br>709 | 37,164<br>5,332 | 2,237 | 37,201 | 27,415 | 6,139 | 34,191 | 5,332 | 3,292 | 92·0 | 61·74 | 36·99 | 35,355 | 31·79 | 99 | 0·10 |
| | DHA'RWA'R COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 54 | Dhárwár Town Municipal ... | 32,841 | 28,557 | 1 | P. 816<br>R. 455 | 714<br>11 | 1,530<br>466 | 1,996 | 1,530 | 993 | 306 | 1,452 | 466 | 374 | 94·90 | 80·26 | 55·60 | 1,517 | 46·49 | 26 | 0·79 |
| 55 | Hubli do. do. ... | 52,595 | 44,585 | 1 | P. 947<br>R. 257 | 905<br>37 | 1,852<br>294 | 2,146 | 1,852 | 1,426 | 266 | 1,706 | 294 | 183 | 92·12 | 62·28 | 35·92 | 1,853 | 35·23 | 16 | 0·30 |
| 56 | Gadag-Bettigeri Town do. ... | 23,899 | 85,354 | 1 | P. 659<br>R. 290 | 603<br>5 | 1,262<br>295 | 1,557 | 1,270 | 946 | 168 | 1,153 | 295 | 221 | 91·36 | 74·92 | 57·49 | 1,529 | 63·98 | 4 | 0·17 |
| 57 | Ránebennur Town Local Fund. | 13,761 | 37,192 | 1 | P. 162<br>R. 53 | 143<br>5 | 305<br>58 | 363 | 305 | 191 | 81 | 273 | 58 | 42 | 89·51 | 72·41 | 22·89 | 448 | 32·56 | 6 | 0·44 |
| 58 | In the 14 Rural Circles, Local Fund. | 928,218 | 205 | 18 | P. 15,482<br>R. 3,088 | 15,133<br>182 | 30,615<br>3,270 | 1,882 | 30,640 | 21,982 | 5,410 | 27,935 | 3,270 | 2,149 | 91·24 | 65·72 | 32·41 | 26,624 | 28·68 | 190 | 0·20 |
| | Total ... | 1,051,314 | 232 | 22 | P. 18,066<br>R. 4,145 | 17,498<br>240 | 35,564<br>4,383 | 1,816 | 35,597 | 25,538 | 6,231 | 32,519 | 4,383 | 2,969 | 91·44 | 67·81 | 33·76 | 31,971 | 30·41 | 242 | 0·23 |
| | BIJA'PUR COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 59 | Bijápur Town Municipal ... | 16,759 | 7,858 | 1 | P. 244<br>R. 63 | 285<br>18 | 529<br>81 | 610 | 531 | 427 | 65 | 493 | 81 | 21 | 93·19 | 25·93 | 30·67 | 888 | 52·99 | 1 | 0·06 |
| 60 | Bágalkot do. do. ... | 18,034 | 169 | 1 | P. 431<br>R. 68 | 391<br>1 | 822<br>69 | 891 | 822 | 681 | 77 | 765 | 69 | 51 | 93·07 | 73·91 | 45·25 | 1,631 | 90·44 | ... | ... |
| 61 | Kaládgi do. Local Fund ... | 4,622 | 8,517 | 11 | P. 95<br>R. 42 | 87<br>21 | 182<br>63 | 2,927 | 182 | 102 | 25 | 132 | 63 | 30 | 72·53 | 47·62 | 35·05 | 82 | 17·74 | ... | ... |
| 62 | In the 8 Rural Circles, Local Fund. | 756,924 | 132 | | P. 13,965<br>R. 3,582 | 13,550<br>855 | 27,515<br>4,437 | | 27,549 | 21,762 | 4,250 | 26,384 | 4,437 | 3,024 | 95·89 | 69·51 | 38·93 | 26,756 | 35·35 | 133 | 0·18 |
| | Total ... | 796,339 | 136 | 13 | P. 14,735<br>R. 3,755 | 14,313<br>895 | 29,048<br>4,650 | 2,592 | 29,084 | 22,972 | 4,417 | 27,774 | 4,650 | 3,186 | 95·61 | 68·52 | 38·88 | 29,357 | 36·86 | 134 | 0·18 |
| | KA'NARA COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 63 | Kárwár Town ... ... ... | 14,579 | 1,239 | 1 | P. 388<br>R. 138 | 262<br>... | 650<br>138 | 738 | 650 | 240 | 180 | 493 | 138 | 61 | 75·85 | 44·20 | 34·99 | 552 | ·86 | 6 | 0·41 |
| 64 | Kumpta do. Local Fund ... | 10,714 | 1,458 | 1 | P. 205<br>R. 16 | 173<br>31 | 378<br>47 | 425 | 378 | 165 | 110 | 334 | 47 | 32 | 88·36 | 68·09 | 34·10 | 457 | 42·65 | 1 | 0·09 |
| 65 | In the 11 Rural Circles, Local Fund. | 421,058 | 108 | 14 | P. 6,829<br>R. 1,745 | 6,196<br>970 | 13,025<br>2,715 | 1,125 | 13,028 | 5,187 | 4,599 | 11,700 | 2,715 | 1,767 | 89·83 | 65·08 | 31·98 | 13,611 | 32·32 | 76 | 0·18 |
| | Total ... | 446,351 | 114 | 16 | P. 7,422<br>R. 1,899 | 6,631<br>1,001 | 14,053<br>2,900 | 1,060 | 14,056 | 5,592 | 4,889 | 12,527 | 2,900 | 1,860 | 89·14 | 64·14 | 32·33 | 14,620 | 32·75 | 83 | 0·19 |

## Statement No. I., showing Particulars of Vaccination, &c.—*continued.*

| Number. | Circles and Districts. | Population of Districts according to Census of 1891. | Average Population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. | Primary Vaccinations. | | | | Re-vaccination. | | Percentage of successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all Ages. | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | THE SOUTHERN REGISTRATION DISTRICT—*continued.* | | | | | | | | | | | | | | | | | | | | |
| | Southern Marátha Jághirs.— | | | | | | | | | | | | | | | | | | | | |
| 66 | Sángli ... ... ... ... | 238,945 | 221 | 8 | P. 4,203<br>R. 1,203 | 4,112<br>376 | 8,315<br>1,579 | 1,237 | 8,336 | 6,290 | 903 | 7,250 | 1,579 | 740 | 87·19 | 46·29 | 33·44 | 6,816 | 28·53 | ... | ... |
| 67 | Jamkhandi ... ... ... | 102,162 | 184 | 2 | P. 1,931<br>R. 124 | 1,951<br>34 | 3,882<br>158 | 2,020 | 3,882 | 3,010 | 828 | 3,865 | 158 | 133 | 99·56 | 84·18 | 39·13 | 3,642 | 35·65 | ... | ... |
| 68 | Miraj (Senior) ... ... ... | 88,343 | 261 | 2 | P. 1,479<br>R. 102 | 1,361<br>11 | 2,840<br>113 | 1,476 | 2,878 | 2,134 | 661 | 2,806 | 113 | 106 | 98·80 | 93·80 | 32·96 | 2,752 | 31·15 | ... | ... |
| 69 | Do. (Junior) ... ... ... | 35,487 | 158 | 1 | P. 510<br>R. 47 | 512<br>4 | 1,022<br>51 | 1,073 | 1,022 | 606 | 348 | 982 | 51 | 25 | 95·99 | 49·02 | 28·38 | 990 | 27·90 | ... | ... |
| 70 | Kurundvád (Senior) ... ... | 43,809 | 252 | 1 | P. 699<br>R. 127 | 629<br>38 | 1,328<br>165 | 1,493 | 1,328 | 887 | 369 | 1,256 | 165 | 123 | 94·58 | 74·54 | 31·48 | 1,186 | 27·07 | ... | ... |
| 71 | Do. (Junior) ... .. | 32,528 | 243 | 1 | P. 561<br>R. 31 | 477<br>... | 1,038<br>31 | 1,069 | 1,038 | 708 | 225 | 945 | 31 | 23 | 91·04 | 74·19 | 29·76 | 964 | 29·64 | ... | ... |
| 72 | Mudhol ... ... ... .... | 61,815 | 171 | 1 | P. 1,044<br>R. 129 | 1,013<br>60 | 2,057<br>189 | 2,246 | 2,066 | 1,581 | 301 | 1,887 | 189 | 83 | 91·73 | 43·91 | 31·87 | 2,410 | 38·99 | ... | ... |
| 73 | Rámdurg ... ... ... | 36,181 | 214 | 1 | P. 719<br>R. 215 | 648<br>31 | 1,367<br>246 | 1,613 | 1,377 | 887 | 327 | 1,224 | 246 | 99 | 89·54 | 40·24 | 36·56 | 1,411 | 38·99 | ... | ... |
| 74 | Jath and Daphlápur States ... | 79,786 | 82 | 2 | P. 1,432<br>R. 657 | 1,473<br>153 | 2,905<br>810 | 1,857 | 2,907 | 2,061 | 472 | 2,589 | 810 | 491 | 89·12 | 60·37 | 38·61 | 3,353 | 67·09 | ... | ... |
| | Total ... | 719,056 | 179 | 19 | P. 12,578<br>R. 2,635 | 12,176<br>707 | 24,754<br>3,342 | 1,479 | 24,834 | 18,164 | 4,434 | 22,804 | 3,342 | 1,823 | 89·21 | 54·55 | 34·25 | 23,524 | 32·72 | ... | ... |
| | Under the Dhárwár Agency— | | | | | | | | | | | | | | | | | | | | |
| 75 | Savanur State ... ... ... | 16,976 | 242 | 1 | P. 284<br>R. 22 | 237<br>3 | 521<br>25 | 546 | 523 | 414 | 58 | 476 | 25 | 20 | 91·36 | 80·00 | 29·21 | 649 | 38·23 | ... | ... |
| 76 | Kolhápur State... ... ... | 913,131 | 320 | 13 | P. 13,089<br>R. 4,539 | 13,0 6<br>1,234 | 26,105<br>5,773 | 2,452 | 26,169 | 19,264 | 5,704 | 25,112 | 5,773 | 4,133 | 96·19 | 71·63 | 32·02 | 29,474 | 32·28 | ... | ... |
| | TOTALS BY ESTABLISHMENTS IN THE SOUTHERN REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | | |
| | Municipal ... ... ... | 221,966 | 1,772 | 8 | P. 4,746<br>R. 1,852 | 4,226<br>99 | 8,972<br>1,951 | 1,365 | 8,993 | 6,080 | 1,551 | 8,039 | 1,951 | 1,110 | 89·80 | 56·89 | 41·21 | 11,049 | 49·78 | 63 | 0·31 |
| | Local Fund ... ... ... | 3,085,299 | 164 | 62 | P. 54,439<br>R. 12,568 | 52,418<br>2,746 | 106,857<br>15,314 | 1,971 | 106,945 | 75,437 | 20,125 | 98,972 | 15,314 | 10,197 | 92·62 | 66·59 | 35·35 | 100,114 | 32·40 | 495 | 0·16 |
| | Native State ... ... ... | 1,649,163 | 238 | 33 | P. 25,951<br>R. 7,196 | 25,429<br>1,944 | 51,380<br>9,140 | 1,834 | 51,526 | 37,842 | 10,196 | 48,392 | 9,140 | 5,976 | 94·18 | 65·38 | 32·95 | 53,647 | 32·53 | ... | ... |
| | Grand Total ... | 4,956,428 | 191 | 103 | P. 85,136<br>R. 21,616 | 82,073<br>4,789 | 167,209<br>26,405 | 1,880 | 167,464 | 119,359 | 31,872 | 155,403 | 26,405 | 17,283 | 92·94 | 65·45 | 34·84 | 164,810 | 33·25 | 558 | 0·11 |
| | THE GUJARÁT REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | | |
| | Surat Collectorate— | | | | | | | | | | | | | | | | | | | | |
| 77 | Bulsár Town Local Fund ... | 14,779 | 5,912 | ... | P. 154<br>R. 15 | 157<br>6 | 311<br>21 | 332 | 311 | 180 | 98 | 286 | 21 | 12 | 91·96 | 57·14 | 20·16 | 158 | 10·69 | 3 | 0·20 |
| 78 | Surat do. Municipal ... | 108,697 | 36,232 | 2 | P. 1,951<br>R. 281 | 1,775<br>6 | 3,726<br>287 | 2,006 | 3,739 | 2,641 | 896 | 3,590 | 288 | 103 | 96·35 | 35·88 | 33·98 | 3,305 | 30·41 | 1 | ... |
| 79 | In the 8 Rural Circles, Local Fund. | 526,513 | 318 | 9 | P. 8,492<br>R. 256 | 8,604<br>93 | 17,096<br>349 | 1,938 | 17,185 | 11,628 | 4,754 | 16,470 | 350 | 256 | 96·34 | 75·55 | 31·77 | 15,283 | 29·03 | 35 | 0·06 |
| | Total ... | 649,989 | 391 | 11 | P. 10,597<br>R. 552 | 10,536<br>105 | 21,133<br>657 | 1,981 | 21,235 | 14,449 | 5,748 | 20,346 | 659 | 371 | 96·27 | 56·47 | 31·87 | 18,746 | 28·84 | 39 | 0·06 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BROACH COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 80 | Broach Town Municipal ... | 40,168 | 23,910 | 1 | P. 763<br>R. 146 | 742<br>... | 1,505<br>146 | 1,651 | 1,506 | 1,177 | 301 | 1,491 | 146 | 117 | 99·07 | 80·14 | 40·32 | 1,246 | 31·01 | 2 | 0·05 |
| 81 | Jambusar Town Local Fund ... | 12,072 | 22,356 | ... | P. 212<br>R. 1 | 204<br>... | 416<br>1 | 417 | 416 | 331 | 75 | 407 | 1 | 1 | 97·91 | 100·00 | 33·80 | 373 | 30·90 | 3 | 0·24 |
| 82 | In the 6 Rural Circles, Local Fund ... ... ... ... | 289,250 | 199 | 5 | P. 4,451<br>R. 280 | 4,201<br>68 | 8,652<br>348 | 1,800 | 8,654 | 6,863 | 1,562 | 8,452 | 348 | 116 | 97·69 | 33·30 | 29·62 | 8,478 | 29·31 | 7 | 0·02 |
| | Total ... | 341,490 | 235 | 6 | P. 5,426<br>R. 427 | 5,147<br>68 | 10,573<br>495 | 1,845 | 10,576 | 8,371 | 1,938 | 10,350 | 495 | 234 | 97·89 | 47·27 | 30·99 | 10,097 | 29·57 | 12 | 0·04 |
| | KAIRA COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 83 | Kapadvanj Town Local Fund . | 14,805 | 64,370 | ... | P. 291<br>R. 2 | 245<br>2 | 536<br>4 | 540 | 536 | 440 | 84 | 528 | 4 | 3 | 98·51 | 75·00 | 35·87 | 373 | 25·19 | 1 | 0·07 |
| 84 | Nadiád Town Municipal ... | 29,048 | 88,024 | 1 | P. 512<br>R. 26 | 432<br>... | 944<br>26 | 970 | 944 | 863 | 71 | 936 | 26 | 21 | 99·15 | 80·77 | 32·93 | 994 | 34·22 | 1 | 0·03 |
| 85 | Borsad Town Local Fund ... | 12,159 | 63,995 | ... | P. 296<br>R. 3 | 232<br>... | 528<br>3 | 531 | 529 | 446 | 74 | 521 | 3 | 1 | 98·67 | 33·33 | 42·93 | 458 | 37·67 | ... | ... |
| 86 | Kaira do. do. ... | 10,101 | 36,075 | ... | P. 155<br>R. ... | 142<br>... | 297<br>... | 297 | 298 | 226 | 60 | 293 | ... | ... | 98·65 | ... | 29·01 | 253 | 25·05 | ... | ... |
| 87 | In the 7 Rural Circles, Local Fund ... ... ... ... | 805,476 | 501 | 10 | P. 12,976<br>R. 1,009 | 10,798<br>49 | 23,774<br>1,058 | 2,483 | 23,807 | 19,624 | 3,765 | 23,487 | 1,058 | 571 | 98·79 | 53·97 | 29·87 | 22,333 | 27·73 | 12 | 0·01 |
| | Total ... | 871,589 | 542 | 11 | P. 14,230<br>R. 1,040 | 11,849<br>51 | 26,079<br>1,091 | 2,470 | 26,114 | 21,599 | 4,054 | 25,765 | 1,091 | 596 | 98·80 | 54·63 | 30·24 | 24,411 | 28·01 | 14 | 0·02 |
| | PANCH MAHA'LS— | | | | | | | | | | | | | | | | | | | |
| 88 | Godhra Town Local Fund ... | 14,691 | 86,418 | ... | P. 305<br>R. 9 | 307<br>1 | 612<br>10 | 622 | 612 | 452 | 129 | 583 | 10 | 5 | 95·26 | 50·00 | 40·02 | 567 | 38·60 | 9 | 0·61 |
| 89 | Dohad do. do. ... | 12,935 | 76,088 | ... | P. 155<br>R. 2 | 160<br>2 | 315<br>4 | 319 | 315 | 255 | 46 | 301 | 4 | 1 | 95·55 | 25·00 | 23·35 | 309 | 23·89 | 5 | 0·39 |
| 90 | In the 5 Rural Circles, Local Fund ... ... ... ... | 285,791 | 177 | 7 | P. 5,460<br>R. 158 | 5,352<br>31 | 10,812<br>189 | 1,572 | 10,821 | 8,930 | 1,655 | 10,625 | 189 | 134 | 98·27 | 70·90 | 37·65 | 9,813 | 34·34 | 8 | 0·03 |
| | Total ... | 313,417 | 194 | 7 | P. 5,920<br>R. 169 | 5,819<br>34 | 11,739<br>203 | 1,706 | 11,748 | 9,637 | 1,830 | 11,509 | 203 | 140 | 98·64 | 68·96 | 37·17 | 10,689 | 34·10 | 22 | 0·07 |
| | AHMEDABAD COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 91 | Dholka Town Municipal ... | 16,494 | 21,992 | 1 | P. 270<br>R. 5 | 270<br>1 | 540<br>6 | 546 | 540 | 520 | 13 | 533 | 6 | 6 | 98·70 | 100·00 | 32·68 | 586 | 35·53 | ... | ... |
| 92 | Ahmedabad Town Municipal... | 144,451 | 65,660 | 2 | P. 2,562<br>R. 625 | 2,372<br>261 | 4,934<br>886 | 2,910 | 4,943 | 3,640 | 415 | 4,073 | 886 | 197 | 82·55 | 22·23 | 29·56 | 4,733 | 32·77 | 3 | 0·03 |
| 93 | Ahmedabad Cantonment ... | 3,961 | ... | ... | P. 15<br>R. ... | 10<br>... | 25<br>... | 25 | 25 | 17 | 8 | 25 | ... | ... | 100·00 | ... | 6·31 | 35 | 8·84 | 1 | ... |
| 94 | Gogha Town Local Fund ... | 6,638 | 8,851 | ... | P. 137<br>R. 3 | 142<br>1 | 279<br>4 | 283 | 279 | 198 | 74 | 272 | 4 | 2 | 97·49 | 50·00 | 41·28 | 228 | 34·35 | 2 | 0·30 |
| 95 | Viramgám Town do. ... | 23,209 | 38,048 | ... | P. 359<br>R. ... | 319<br>... | 678<br>... | 678 | 678 | 624 | 46 | 671 | ... | ... | 98·97 | ... | 28·91 | 654 | 28·14 | ... | ... |
| 96 | In the 7 Rural Circles, Local Fund ... ... ... ... | 726,959 | 190 | 12 | P. 11,556<br>R. 949 | 10,971<br>242 | 22,527<br>1,191 | 1,976 | 22,573 | 19,806 | 2,181 | 22,072 | 1,193 | 860 | 97·98 | 72·21 | 31·55 | 21,218 | 29·19 | 9 | 0·01 |
| | Total ... | 921,712 | 241 | 15 | P. 14,899<br>R. 1,582 | 14,084<br>505 | 28,983<br>2,087 | 2,071 | 29,038 | 24,805 | 2,737 | 27,646 | 2,089 | 1,065 | 95·39 | 51·03 | 31·15 | 27,454 | 29·78 | 15 | 0·02 |
| | NATIVE STATES— | | | | | | | | | | | | | | | | | | | |
| 97 | Rewa Kántha ... ... ... | 726,056 | 150 | 16 | P. 12,255<br>R. 294 | 11,895<br>89 | 24,150<br>383 | 1,533 | 24,203 | 15,241 | 7,849 | 23,624 | 383 | 302 | 97·82 | 78·85 | 32·95 | 23,869 | 32·87 | ... | ... |
| 98 | Mahi Kántha ... ... ... | 279,434 | 172 | 4 | P. 3,338<br>R. 195 | 3,212<br>87 | 6,550<br>282 | 1,708 | 6,573 | 5,350 | 1,006 | 6,375 | 282 | 238 | 97·33 | 84·40 | 23·63 | 10,859 | 38·86 | ... | ... |
| 99 | Cambay ... ... ... ... | 89,722 | 256 | 1 | P. 1,302<br>R. 14 | 1,183<br>2 | 2,485<br>16 | 2,501 | 2,485 | 1,743 | 674 | 2,455 | 16 | 16 | 98·79 | 100·00 | 27·54 | 2,327 | 25·94 | ... | ... |
| 100 | Surat Agency . Dharampur . | 120,498 | 152 | 3 | P. 2,539<br>R. 54 | 2,465<br>20 | 5,004<br>74 | 1,693 | 5,004 | 2,747 | 2,130 | 4,943 | 74 | 69 | 98·78 | 93·24 | 41·59 | 4,762 | 39·52 | ... | ... |
| 101 | Surat Agency . Bánsda ... | 41,373 | 192 | 1 | P. 926<br>R. 23 | 969<br>21 | 1,895<br>44 | 1,939 | 1,895 | 1,519 | 359 | 1,885 | 44 | 43 | 99·47 | 97·73 | 46·60 | 1,543 | 37·29 | ... | ... |
| 102 | Surat Agency . Sachin Local Fund ... | 19,337 | 460 | ... | P. 293<br>R. 9 | 302<br>... | 595<br>9 | 604 | 595 | 359 | 210 | 571 | 9 | 8 | 95·97 | 88·89 | 29·94 | 518 | 26·79 | ... | ... |
| 103 | Jámbughodha Local Fund ... | 7,450 | 52 | ... | P. 122<br>R. ... | 108<br>... | 230<br>... | 230 | 230 | 188 | 38 | 226 | ... | ... | 98·26 | ... | 30·34 | 292 | 39·19 | ... | ... |

## Statement No. 1, showing Particulars of Vaccination, &c.—*continued.*

| Number. | Circles and Districts. | Population of Districts according to Census of 1891. | Average Population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator | Primary Vaccinations. | | | | Re-vaccination. | | Percentage of Successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all Ages. | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | TOTALS BY ESTABLISHMENTS IN GUJARAT REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | | |
| | Municipal ... ... ... | 338,858 | 42,809 | 7 | P. 6,058 | 5,591 | 11,649 | 1,857 | 11,672 | 8,841 | 1,696 | 10,623 | 1,352 | 444 | 91·20 | 32·87 | 32·66 | 10,863 | 32·06 | 7 | 0·02 |
| | | | | | R. 1,083 | 268 | 1,351 | | | | | | | | | | | | | | |
| | Local Fund ... ... ... | 2,782,165 | 268 | 43 | P. 45,414 | 42,244 | 87,658 | 2,113 | 87,839 | 70,550 | 14,851 | 85,765 | 3,194 | 1,970 | 97·84 | 61·74 | 31·53 | 81,307 | 29·22 | 94 | 0·03 |
| | | | | | R. 2,696 | 495 | 3,191 | | | | | | | | | | | | | | |
| | Native States ... ... ... | 1,257,083 | 160 | 25 | P. 20,360 | 19,724 | 40,084 | 1,635 | 40,160 | 26,600 | 12,018 | 39,282 | 799 | 668 | 98·00 | 83·60 | 31·78 | 43,360 | 34·49 | ... | ... |
| | | | | | R. 580 | 219 | 799 | | | | | | | | | | | | | | |
| | Cantonment ... ... ... | 3,961 | ... | ... | P. 15 | 10 | 25 | 25 | 25 | 17 | 8 | 25 | ... | ... | 100·00 | ... | 6·31 | 35 | 8·83 | ... | ... |
| | | | | | R. ... | ... | ... | | | | | | | | | | | | | | |
| | Total ... | 4,382,067 | 233 | 75 | P. 71,847 | 67,569 | 139,416 | 1,930 | 139,696 | 106,008 | 28,573 | 135,695 | 5,345 | 3,082 | 97·33 | 57·70 | 31·07 | 135,565 | 30·94 | 101 | 0·02 |
| | | | | | R. 4,359 | 982 | 5,341 | | | | | | | | | | | | | | |
| | THE SIND REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | | |
| | KARÁCHI COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 104 | Karáchi Town Municipal ... | 105,199 | 12,819 | 2 | P. 2,498 | 2,399 | 4,897 | 4,187 | 4,948 | 3,455 | 852 | 4,787 | 3,489 | 2,923 | 97·75 | 84·07 | 73·29 | 4,299 | 40·87 | 5 | 0·05 |
| | | | | | R. 2,646 | 831 | 3,477 | | | | | | | | | | | | | | |
| 105 | Tátta do. do. ... | 8,969 | ... | 1 | P. 201 | 141 | 342 | 387 | 345 | 219 | 43 | 297 | 45 | 20 | 86·84 | 44·44 | 35·34 | 277 | 30·88 | ... | ... |
| | | | | | R. 36 | 9 | 45 | | | | | | | | | | | | | | |
| 106 | In the fourteen Rural Circles, Local Fund ... ... ... | 450,712 | 32 | 14 | P. 7,704 | 7,026 | 14,730 | 1,314 | 14,758 | 8,169 | 4,876 | 13,376 | 3,666 | 2,372 | 90·81 | 64·70 | 34·94 | 12,743 | 28·28 | 15 | 0·03 |
| | | | | | R. 2,070 | 1,596 | 3,666 | | | | | | | | | | | | | | |
| | Total .. | 564,880 | 40 | 17 | P. 10,403 | 9,566 | 19,969 | 1,597 | 20,051 | 11,843 | 5,771 | 18,460 | 7,200 | 5,315 | 92·44 | 73·94 | 42·09 | 17,319 | 30·66 | 20 | 0·04 |
| | | | | | R. 4,752 | 2,436 | 7,188 | | | | | | | | | | | | | | |
| | HYDERABAD COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 107 | Hyderabad Town Municipal ... | 54,569 | ... | 1 | P. 1,450 | 1,194 | 2,644 | 4,153 | 2,644 | 1,665 | 748 | 2,542 | 1,509 | 609 | 96·14 | 40·36 | 57·74 | 1,670 | 30·60 | 1 | 0·02 |
| | | | | | R. 1,477 | 32 | 1,509 | | | | | | | | | | | | | | |
| 108 | In the twelve Rural Circles, Local Fund ... ... ... | 829,865 | 96 | 12 | P. 12,000 | 10,394 | 22,394 | 2,062 | 22,430 | 12,240 | 7,407 | 20,064 | 2,354 | 1,258 | 89·60 | 53·44 | 25·69 | 21,350 | 25·73 | 21 | 0·03 |
| | | | | | R. 1,858 | 496 | 2,354 | | | | | | | | | | | | | | |
| | Total ... | 884,434 | 104 | 13 | P. 13,450 | 11,588 | 25,038 | 2,223 | 25,074 | 13,905 | 8,155 | 22,606 | 3,863 | 1,867 | 90·29 | 48·33 | 27·67 | 23,020 | 26·03 | 22 | 0·03 |
| | | | | | R. 3,335 | 528 | 3,863 | | | | | | | | | | | | | | |
| | THAR AND PÁRKAR COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 109 | Umarkot Town Local Fund ... | 3,702 | ... | ... | P. 49 | 47 | 96 | ... | 96 | 48 | 32 | 86 | 27 | 5 | 89·58 | 18·52 | 24·58 | 151 | 40·79 | ... | ... |
| | | | | | R. 20 | 7 | 27 | | | | | | | | | | | | | | |
| 110 | In the eight Rural Circles, Local Fund ... ... ... | 328,713 | ... | 8 | P. 6,397 | 5,690 | 12,087 | 1,771 | 12,104 | 6,365 | 4,650 | 11,275 | 1,956 | 1,353 | 93·28 | 69·17 | 38·42 | 10,091 | 30·69 | 6 | 0·01 |
| | | | | | R. 967 | 989 | 1,956 | | | | | | | | | | | | | | |
| | Total ... | 332,415 | 25 | 8 | P. 6,446 | 5,737 | 12,183 | 1,771 | 12,200 | 6,413 | 4,682 | 11,361 | 1,983 | 1,358 | 93·25 | 68·48 | 38·26 | 10,242 | 30·81 | 6 | 0·00 |
| | | | | | R. 987 | 996 | 1,983 | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SHIKÁRPUR COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 111 | Shikárpur Town Municipal ... | 42,004 | 4,421 | 1 | P. 674<br>R. 266 | 583<br>2 | 1,257<br>268 | 1,525 | 1,260 | 1,023 | 125 | 1,148 | 268 | 141 | 91·33 | 52·61 | 30·69 | 1,187 | 28·26 | 1 | 0·02 |
| 112 | Sukkur do. do. ... | 29,302 | ... | 1 | P. 962<br>R. 253 | 727<br>236 | 1,689<br>489 | 2,178 | 1,689 | 1,287 | 266 | 1,565 | 489 | 432 | 92·66 | 88·34 | 68·15 | 1,951 | 66·58 | ... | ... |
| 113 | Larkhána do. do. ... | 12,019 | ... | 1 | P. 296<br>R. 312 | 207<br>31 | 503<br>343 | 846 | 503 | 384 | 50 | 465 | 343 | 236 | 92·45 | 68·80 | 58·32 | 500 | 41·60 | ... | ... |
| 114 | Rohri do. do. ... | 8,786 | ... | 1 | P. 248 | 188 | 433 | 506 | 433 | 321 | 14 | 354 | 73 | 54 | 81·76 | 73·97 | 46·44 | 410 | 46·67 | ... | ... |
| 115 | In the 14 Rural Circles Local Fund ... ... ... ... | 823,386 | 89 | 16 | R. 60<br>P. 14 356<br>R. 2,882 | 13<br>12,546<br>2,826 | 73<br>26,902<br>5,708 | 2,038 | 26,961 | 21,581 | 3,352 | 25,098 | 5,711 | 2,971 | 93·29 | 52·05 | 34·09 | 27,069 | 32·88 | 12 | 0·01 |
| | Total ... | 915,497 | 99 | 20 | P. 16,533<br>R. 3,773 | 14,251<br>3,108 | 30,784<br>6,881 | 1,883 | 30,846 | 24,596 | 3,807 | 28,630 | 6,884 | 3,834 | 93·00 | 55·72 | 35·47 | 31,117 | 33·99 | 13 | 0·01 |
| | UPPER SIND FRONTIER— | | | | | | | | | | | | | | | | | | | |
| 116 | Jacobabad Town and Cantonment Local Fund ... ... | 12,396 | ... | ... | P. 99<br>R. 172 | 85<br>7 | 184<br>179 | 1,743 | 189 | 93 | 64 | 161 | 180 | 101 | 87·50 | 56·42 | 21·14 | 192 | 15·49 | ... | ... |
| 117 | In the 4 Rural Circles Local Fund ... ... ... ... | 162,152 | ... | 4 | P. 2,996<br>R. 592 | 2,482<br>541 | 5,478<br>1,133 | | 5,490 | 3,076 | 1,462 | 4,620 | 1,133 | 599 | 84·34 | 52·87 | 32·19 | 5,214 | 32·16 | 2 | 0·01 |
| | Total ... | 174,548 | 61 | 4 | P. 3,095<br>R. 764 | 2,567<br>518 | 5,662<br>1,312 | 1,743 | 5,679 | 3,169 | 1,526 | 4,781 | 1,313 | 700 | 84·44 | 53·35 | 31·40 | 5,406 | 30·97 | 2 | 0·01 |
| | NATIVE STATE— | | | | | | | | | | | | | | | | | | | |
| 118 | Khairpur State ... ... ... | 131,937 | 22 | 4 | P. 3,111<br>R. 94 | 2,443<br>66 | 5,554<br>160 | 1,428 | 5,661 | 3,130 | 1,810 | 5,124 | 160 | 96 | 92·26 | 60·00 | 39·56 | 3,316 | 25·13 | ... | ... |
| | TOTALS BY ESTABLISHMENTS IN SIND REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | |
| | Municipal ... ... ... ... | 253,844 | 148 | 8 | P. 6,326<br>R. 5,050 | 5,439<br>1,154 | 11,765<br>6,204 | 2,246 | 11,822 | 8,354 | 2,098 | 11,158 | 6,216 | 4,415 | 94·84 | 71·16 | 61·35 | 10,338 | 40·55 | 7 | 0·03 |
| | Local Fund ... ... ... ... | 2,617,930 | 55 | 54 | P. 43,601<br>R. 8,561 | 38,270<br>6,462 | 81,871<br>15,023 | 1,794 | 82,028 | 51,572 | 21,843 | 74,680 | 15,027 | 8,659 | 91·22 | 65·48 | 31·83 | 76,809 | 29·34 | 56 | 0·02 |
| | Native State... ... ... ... | 131,937 | 22 | 4 | P. 3,111<br>R. 94 | 2,443<br>66 | 5,554<br>160 | 1,428 | 5,661 | 3,130 | 1,810 | 5,124 | 160 | 96 | 92·26 | 60·00 | 39·56 | 3,316 | 25·13 | ... | ... |
| | Grand Total ... | 3,003,711 | 55 | 66 | P. 53,038<br>R. 13,705 | 46,152<br>7,682 | 99,190<br>21,387 | 1,827 | 99,511 | 63,056 | 25,751 | 90,962 | 21,403 | 13,170 | 91·71 | 61·58 | 34·67 | 90,463 | 30·10 | 63 | 0·02 |
| | ADEN. | | | | | | | | | | | | | | | | | | | |
| 119 | Aden Municipality ... ... ... | 44,079 | 3,800 | 2 | P. 2,153<br>R. 90 | 576<br>3 | 2,729<br>93 | 1,411 | 2,729 | 104 | 305 | 1,611 | 93 | 80 | 59·03 | 86·02 | 38·36 | 693 | 15·72 | ... | ... |

## Statement No. I., showing Particulars of Vaccination, &c.—*continued.*

| Number. | Circles and Districts. | | Population of Districts according to Census of 1891. | Average Population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. | Primary Vaccination. | | | | Revaccination. | | Percentage of Successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Revaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all ages. | | | | | | | | | |
| 1 | 2 | | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| TOTAL FOR THE BOMBAY PRESIDENCY. | BY ESTABLISHMENTS. | | | | | Males. | Females. | Total. | | | | | | | | | | | | | | |
| | | Municipal... ... ... | 2,142,441 | 8,626 | *49 | P. 38,358<br>R. 18,398 | 33,947<br>3,801 | 72,305<br>22,199 | 1,969 | 72,503 | 50,363 | 12,128 | 65,980 | 22,212 | 10,011 | 91·25 | 45·10 | 35·47 | 71,891 | 33·56 | 479 | 0·22 |
| | | Cantonment ... ... | 57,869 | 5,510 | 2 | P. 1,548<br>R. 547 | 936<br>22 | 2,484<br>569 | 1,526 | 2,484 | 1,690 | 638 | 2,370 | 569 | 330 | 95·41 | 57·99 | 46·66 | 2,523 | 43·60 | 3 | 0·07 |
| | | Local Fund ... ... | 16,727,600 | 134 | 305 | P. 273,013<br>R. 27,743 | 261,064<br>12,594 | 534,077<br>40,337 | 1,851 | 534,737 | 390,660 | 100,152 | 497,062 | 40,345 | 24,904 | 93·07 | 61·74 | 31·21 | 503,748 | 31·15 | 2,140 | 0·12 |
| | | Native State ... ... | 3,774,032 | 110 | 78 | P. 60,424<br>R. 8,637 | 58,645<br>2,930 | 119,069<br>11,567 | 1,675 | 119,433 | 83,134 | 28,576 | 133,407 | 11,567 | 7,835 | 95·24 | 67·74 | 32·13 | 123,458 | 32·71 | ... | ... |
| | | In British Territory ... | 18,927,910 | 151 | 356 | P. 312,919<br>R. 46,688 | 295,947<br>16,417 | 608,866<br>63,105 | 1,887 | 609,724 | 442,713 | 112,918 | 565,412 | 63,126 | 35,245 | 92·86 | 55·85 | 31·73 | 578,162 | 30·55 | 2,622 | 0·14 |
| | | In Native State Territory | 3,774,032 | 110 | 78 | P. 60,424<br>R. 8,637 | 58,645<br>2,930 | 119,069<br>11,567 | 1,675 | 119,433 | 83,134 | 28,576 | 113,407 | 11,567 | 7,835 | 95·24 | 67·74 | 32·13 | 123,458 | 32·71 | ... | ... |
| | | GRAND TOTAL ... | 22,701,942 | 143 | *434 | P. 373,343<br>R. 55,325 | 354,592<br>19,347 | 727,935<br>74,672 | 1,854 | 729,157 | 525,847 | 141,494 | 678,819 | 74,693 | 43,080 | 93·25 | 57·59 | 31·80 | 701,620 | 30·91 | 2,622 | 0·12 |

* One head vaccinator, Presidency Circle, Bombay, does not perform vaccination work.

# A.—VACCINE DEPARTMENT.

Statement No. II, showing the Cost of the Department

| No. | Circles and Districts. | Expenditure. | | | | | | | | | | | | Total of Establishments. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Europ. supervising officers. | Pay. | | Inspectors of Sanitation and Vaccination. | Pay. | | Vaccinators. | Pay. | | Clerks. | Pay. | | Peons, &c. | Pay. | | | |
| | THE WESTERN REGISTRATION DISTRICT. | | Rs. | a. p. | | Rs. | a. p. | | Rs. | a. p. | | Rs. | a. p. | | Rs. | a. p. | Rs. | a. p. |
| | Administrative Charges... | 1 | 9,726 | 6 2 | 8 | 6,328 | 7 3 | ... | ..... | | 2 | 846 | 0 0 | 12 | 1,144 | 8 3 | 18,045 | 5 8 |
| 1 | Khándesh ... ... ... | ... | ..... | | ... | ..... | | 34 | 6,651 | 3 3 | ... | ..... | | 31 | 2,604 | 12 11 | 9,256 | 0 2 |
| 2 | Násik ... ... ... | ... | ..... | | ... | ..... | | 20 | 3,736 | 10 1 | ... | ..... | | 17 | 1,443 | 7 11 | 5,180 | 2 0 |
| 3 | Thána ... ... ... | ... | ..... | | ... | ..... | | 20 | 3,699 | 11 3 | ... | ..... | | 18 | 1,521 | 13 2 | 5,221 | 8 5 |
| 4 | Kolába ... ... ... | ... | ..... | | ... | ..... | | 17 | 3,185 | 9 0 | ... | ..... | | 16 | 1,341 | 15 4 | 4,527 | 8 4 |
| | Total ... | 1 | 9,726 | 6 2 | 8 | 6,328 | 7 3 | 91 | 17,273 | 1 7 | 2 | 846 | 0 0 | 94 | 8,056 | 9 7 | 42,230 | 8 7 |
| | THE PRESIDENCY CIRCLE. | | | | | | | | | | | | | | | | | |
| 5 | Bombay City ... ... | ... | ..... | | 3 | 5,700 | 0 0 | 8 | 2,159 | 0 0 | 5 | 2,065 | 0 0 | 20 | 2,947 | 14 4 | 12,871 | 14 4 |
| | THE CENTRAL REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | |
| | Administrative Charges... | 1 | 9,600 | 0 0 | 6 | 4,740 | 0 0 | ... | ..... | | 2 | 848 | 8 4 | 10 | 981 | 13 5 | 16,170 | 5 9 |
| 6 | Ahmednagar ... ... ... | ... | ..... | | ... | ..... | | 16 | 3,067 | 8 0 | ... | ..... | | 15 | 1,213 | 9 7 | 4,281 | 1 7 |
| 7 | Poona ... ... ... | ... | ..... | | ... | ..... | | 20 | 4,197 | 12 10 | ... | ..... | | 19 | 1,627 | 14 4 | 5,825 | 11 2 |
| 8 | Sholápur ... ... ... | ... | ..... | | ... | ..... | | 16 | 3,167 | 15 11 | ... | ..... | | 15 | 1,201 | 9 10 | 4,369 | 9 9 |
| 9 | Sátára ... ... ... | ... | ..... | | ... | ..... | | 28 | 5,252 | 8 8 | ... | ..... | | 26 | 2,012 | 3 7 | 7,264 | 12 3 |
| 10 | Ratnágiri ... ... | ... | ..... | | ... | ..... | | 17 | 3,169 | 13 11 | ... | ..... | | 15 | 1,235 | 4 8 | 4,405 | 2 7 |
| 11 | Sávantvádi State... ... | ... | ..... | | 1 | 480 | 0 0 | 5 | 839 | 1 8 | ... | ..... | | 6 | 360 | 0 0 | 1,679 | 1 8 |
| | Total ... | 1 | 9,600 | 0 0 | 7 | 5,220 | 0 0 | 102 | 19,694 | 13 0 | 2 | 848 | 8 4 | 106 | 8,632 | 7 5 | 43,905 | 12 9 |
| | THE SOUTHERN REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | |
| | Administrative Charges... | 1 | 12,521 | 4 6 | 6 | 5,232 | 2 9 | ... | ..... | | 2 | 840 | 0 0 | 10 | 984 | 0 0 | 19,577 | 7 3 |
| 12 | Belgaum ... ... | ... | ..... | | ... | ..... | | 21 | 3,743 | 14 4 | ... | ..... | | 19 | 1,542 | 0 0 | 5,290 | 14 4 |
| 13 | Dhárwár ... ... | ... | ..... | | ... | ..... | | 25 | 4,946 | 14 8 | ... | ..... | | 23 | 1,939 | 0 0 | 6,885 | 14 8 |
| 14 | Bijápur ... ... | ... | ..... | | ... | ..... | | 14 | 2,715 | 7 0 | ... | ..... | | 13 | 1,092 | 0 0 | 3,807 | 7 0 |
| 15 | Kánara... ... ... | ... | ..... | | ... | ..... | | 18 | 3,326 | 10 7 | ... | ..... | | 15 | 1,260 | 0 0 | 4,586 | 10 7 |
| 16 | Kolhápur ... ... | ... | ..... | | 1 | 960 | 0 0 | 15 | 2,790 | 0 0 | 1 | 180 | 0 0 | 15 | 1,002 | 0 0 | 4,932 | 0 0 |
| 17 | Southern Marátha Jághirs | ... | ..... | | 7 | 2,218 | 0 0 | 20 | 3,482 | 13 6 | ... | ..... | | 25 | 1,761 | 0 5 | 7,461 | 13 11 |
| | Total ... | 1 | 12,521 | 4 6 | 14 | 8,410 | 2 9 | 113 | 21,010 | 12 1 | 3 | 1,020 | 0 0 | 120 | 9,580 | 0 5 | 52,542 | 3 9 |
| | THE GUJARÁT REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | |
| | Administrative Charges... | 1 | 8,445 | 3 4 | 5 | 4,080 | 0 0 | ... | ..... | | 2 | 840 | 0 0 | 9 | 864 | 0 0 | 14,229 | 3 4 |
| 18 | Surat... ... ... ... | ... | ..... | | ... | ..... | | 18 | 3,072 | 5 2 | ... | ..... | | 15 | 1,225 | 7 4 | 4,297 | 12 6 |
| 19 | Broach ... ... ... | ... | ..... | | ... | ..... | | 7 | 1,425 | 13 1 | ... | ..... | | 6 | 516 | 0 0 | 1,941 | 13 1 |
| 20 | Kaira ... ... ... | ... | ..... | | ... | ..... | | 13 | 2,586 | 4 3 | ... | ..... | | 12 | 979 | 12 9 | 3,566 | 1 0 |
| 21 | Panch Mahális ... ... | ... | ..... | | ... | ..... | | 8 | 1,483 | 14 6 | ... | ..... | | 7 | 585 | 3 2 | 2,069 | 1 8 |
| 22 | Ahmedabad ... ... | ... | ..... | | ... | ..... | | 16 | 3,343 | 4 0 | ... | ..... | | 14 | 1,189 | 5 0 | 4,532 | 9 0 |
| 23 | Mahi Kántha Agency States ... ... ... | ... | ..... | | 1 | 480 | 0 0 | 4 | 957 | 0 0 | ... | ..... | | 5 | 426 | 5 3 | 1,863 | 5 3 |
| 24 | Rewa Kántha States ... | ... | ..... | | ... | ..... | | 16 | 3,063 | 6 6 | ... | ..... | | 16 | 1,120 | 8 6 | 4,183 | 15 0 |
| | Total ... | 1 | 8,445 | 3 4 | 6 | 4,560 | 0 0 | 71 | 15,931 | 15 6 | 2 | 840 | 0 0 | 84 | 6,906 | 10 0 | 36,683 | 12 10 |
| | THE SIND REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | |
| | Administrative Charges... | 1 | 9,690 | 15 6 | 7 | 6,166 | 7 10 | ... | ..... | | 2 | 780 | 0 0 | 10 | 977 | 5 7 | 17,614 | 12 11 |
| 25 | Karáchi ... ... ... | ... | ..... | | ... | ..... | | 18 | 3,808 | 5 11 | ... | ..... | | 26 | 2,114 | 4 2 | 5,922 | 10 1 |
| 26 | Hyderabad ... ... ... | ... | ..... | | ... | ..... | | 14 | 3,128 | 8 5 | ... | ..... | | 13 | 1,151 | 6 6 | 4,279 | 14 11 |
| 27 | Thar and Párkar ... ... | ... | ..... | | ... | ..... | | 9 | 1,700 | 2 6 | ... | ..... | | 8 | 675 | 9 6 | 2,375 | 12 0 |
| 28 | Shikárpur ... ... ... | ... | ..... | | ... | ..... | | 21 | 4,294 | 5 0 | ... | ..... | | 21 | 1,669 | 15 8 | 5,964 | 4 8 |
| 29 | Jacobabad ... ... ... | ... | ..... | | ... | ..... | | 5 | 839 | 7 0 | ... | ..... | | 4 | 293 | 11 3 | 1,133 | 2 3 |
| 30 | Native States ... ... | ... | ..... | | ... | ..... | | 4 | 1,523 | 5 8 | ... | ..... | | 4 | 295 | 1 4 | 1,818 | 7 0 |
| | Total ... | 1 | 9,690 | 15 6 | 7 | 6,166 | 7 10 | 71 | 15,294 | 2 6 | 2 | 780 | 0 0 | 86 | 7,177 | 6 0 | 39,108 | 15 10 |
| 31 | Aden... ... ... ... | ... | ..... | | ... | ..... | | 3 | 725 | 4 0 | ... | ..... | | 1 | 156 | 0 0 | 881 | 4 0 |
| | Grand Total ... | 5 | 49,983 | 13 6 | 45 | 36,385 | 1 10 | 468 | 92,039 | 0 8 | 16 | 6,399 | 8 4 | 511 | 43,456 | 15 9 | 228,314 | 8 1 |

DEPARTMENT.

in the Bombay Presidency during the year 1895-96.

| Travelling Allowances. | Contingencies. | Total Cost. | Paid from: Imperial Funds. | Provincial Funds. | Local Funds. | Municipalities. | Native States. | Total. | Number of all successfull vaccinations and re-vaccinations. | Average cost of each successfull case. |
|---|---|---|---|---|---|---|---|---|---|---|
| Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | | Rs. a. p. |
| 4,324 12 6 | 690 3 2 | 23,060 5 4 | ..... | 23,060 5 4 | ..... | ..... | ..... | 23,060 5 4 | ... | ..... |
| 247 6 9 | 854 13 8 | 10,358 4 7 | ..... | ..... | 9,356 6 7 | 324 0 0 | 677 14 0 | 10,358 4 7 | 42,306 | 0 3 11 |
| 79 1 9 | 448 6 0 | 5,707 9 9 | ..... | ..... | 4,971 7 11 | 736 1 10 | ..... | 5,707 9 9 | 25,382 | 0 3 7 |
| 83 0 9 | 561 9 11 | 5,886 3 1 | ..... | ..... | 4,450 8 2 | 949 2 11 | 466 8 0 | 5,836 3 1 | 23,514 | 0 3 11 |
| 30 1 0 | 444 14 8 | 5,002 8 0 | ..... | ..... | 4,264 3 0 | ..... | 738 5 0 | 5,002 8 0 | 20,748 | 0 3 10 |
| 4,764 6 9 | 2,999 15 5 | 49,994 14 9 | ..... | 23,060 5 4 | 23,042 9 8 | 2,009 4 9 | 1,882 11 0 | 49,994 14 9 | 111,950 | 0 7 2 |
| 360 0 0 | 6,460 4 10 | 19,692 3 2 | ..... | 4,560 0 0 | ..... | 15,132 3 2 | ..... | 19,692 3 2 | 20,440 | 0 15 5 |
| 3,869 5 7 | 775 0 0 | 20,814 11 4 | 11,736 6 4 | 9,078 5 0 | ..... | ..... | ..... | 20,814 11 4 | ... | ..... |
| 71 6 6 | 389 8 9 | 4,743 0 10 | ..... | ..... | 4,186 12 4 | 555 4 6 | ..... | 4,743 0 10 | 30,433 | 0 2 6 |
| 28 10 0 | 1,281 3 8 | 7,135 8 10 | ..... | ..... | 4,852 13 4 | 2,482 11 6 | ..... | 7,335 8 10 | 32,900 | 0 3 6 |
| 10 12 0 | 447 0 3 | 4,827 6 0 | ..... | ..... | 3,326 14 2 | 1,248 12 6 | 251 11 4 | 4,827 6 0 | 26,801 | 0 2 10 |
| 19 8 0 | 424 14 9 | 7,709 3 0 | ..... | ..... | 5,811 3 2 | 360 6 0 | 1,537 9 10 | 7,709 3 0 | 48,360 | 0 2 6 |
| 29 8 0 | 131 15 9 | 4,566 10 4 | ..... | ..... | 4,439 7 10 | 127 2 6 | ..... | 4,566 10 4 | 27,548 | 0 2 8 |
| ..... | 189 6 7 | 1,868 8 3 | ..... | ..... | ..... | ..... | 1,868 8 3 | 1,868 8 3 | 6,181 | 0 4 10 |
| 4,029 2 1 | 3,639 1 9 | 51,664 0 7 | 11,736 6 4 | 9,078 5 0 | 22,417 2 10 | 4,774 5 0 | 3,657 13 5 | 51,664 0 7 | 172,223 | 0 4 9 |
| 4,253 8 4 | 921 14 8 | 24,752 14 3 | ..... | 24,752 14 3 | ..... | ..... | ..... | 24,752 14 3 | ... | ..... |
| 41 14 6 | 1,091 14 11 | 6,424 11 9 | ..... | ..... | 5,375 1 5 | 1,049 10 4 | ..... | 6,424 11 9 | 37,483 | 0 2 9 |
| 15 12 3 | 1,755 7 3 | 8,657 2 2 | ..... | ..... | 6,483 4 3 | 1,841 9 6 | 332 4 5 | 8,657 2 2 | 35,984 | 0 3 10 |
| 15 3 0 | 442 13 8 | 4,265 7 8 | ..... | ..... | 4,115 7 8 | 150 0 0 | ..... | 4,265 7 8 | 30,960 | 0 2 2 |
| 72 4 0 | 522 0 4 | 5,180 14 11 | ..... | ..... | 5,039 2 5 | 141 12 6 | ..... | 5,180 14 11 | 14,387 | 0 5 9 |
| ..... | 771 10 0 | 5,703 10 0 | ..... | ..... | ..... | ..... | 5,703 10 0 | 5,703 10 0 | 29,245 | 0 3 1 |
| 1,018 10 0 | 1,083 8 7 | 9,564 0 6 | ..... | ..... | ..... | ..... | 9,564 0 6 | 9,564 0 6 | 24,627 | 0 6 2 |
| 5,417 4 1 | 6,589 5 5 | 64,548 13 3 | ..... | 24,752 14 3 | 21,012 15 9 | 3,133 0 4 | 15,599 14 11 | 64,548 13 3 | 172,686 | 0 5 11 |
| 2,821 8 4 | 831 8 1 | 17,882 3 9 | ..... | 17,882 3 9 | ..... | ..... | ..... | 17,882 3 9 | ... | ..... |
| 37 9 0 | 479 11 11 | 4,815 1 5 | ..... | ..... | 2,820 11 10 | 907 12 10 | 1,086 8 9 | 4,815 1 5 | 28,236 | 0 2 9 |
| 13 6 6 | 215 10 0 | 2,170 13 7 | ..... | ..... | 1,667 3 7 | 503 10 0 | ..... | 2,170 13 7 | 10,584 | 0 3 3 |
| 9 6 0 | 427 5 9 | 4,002 12 9 | ..... | ..... | 3,003 0 9 | 732 2 6 | 267 9 6 | 4,002 12 9 | 28,832 | 0 2 3 |
| 22 14 0 | 247 4 2 | 2,339 3 10 | ..... | ..... | 2,053 5 10 | 285 14 0 | ..... | 2,339 3 10 | 11,875 | 0 3 2 |
| 33 8 6 | 508 3 9 | 5,074 5 3 | ..... | ..... | 3,716 1 8 | 1,358 3 7 | ..... | 5,074 5 3 | 28,711 | 0 2 10 |
| 120 0 0 | 122 4 5 | 2,105 9 8 | ..... | ..... | ..... | ..... | 2,105 9 8 | 2,105 9 8 | 6,613 | 0 5 1 |
| ..... | 306 5 9 | 4,490 4 9 | ..... | ..... | ..... | ..... | 4,490 4 9 | 4,490 4 9 | 23,926 | 0 3 0 |
| 3,058 4 4 | 3,138 5 10 | 42,880 7 0 | ..... | 17,882 3 9 | 13,260 7 8 | 3,787 10 11 | 7,950 0 8 | 42,880 7 0 | 138,777 | 0 4 11 |
| 4,542 14 1 | 593 15 0 | 22,751 10 0 | ..... | 22,131 10 0 | ..... | 1,620 0 0 | ..... | 23,751 10 0 | ... | ..... |
| 1,057 8 0 | 2,590 15 4 | 9,571 1 5 | ..... | ..... | 5,260 10 10 | 4,310 6 7 | ..... | 9,571 1 5 | 23,775 | 0 6 5 |
| 807 3 5 | 342 9 10 | 5,429 12 2 | ..... | ..... | 4,919 5 3 | 510 6 11 | ..... | 5,429 12 2 | 24,473 | 0 3 7 |
| 540 3 3 | 205 6 3 | 3,121 5 6 | ..... | ..... | 3,121 5 6 | ..... | ..... | 3,121 5 6 | 12,719 | 0 3 11 |
| 1,015 11 7 | 450 4 4 | 7,410 4 7 | ..... | ..... | 6,037 4 3 | 1,373 0 4 | ..... | 7,410 4 7 | 32,464 | 0 3 8 |
| 238 14 11 | 94 5 9 | 1,466 6 11 | ..... | ..... | 1,466 6 11 | ..... | ..... | 1,466 6 11 | 5,481 | 0 4 3 |
| ..... | 182 15 11 | 1,951 6 11 | ..... | ..... | ..... | ..... | 1,951 6 11 | 1,951 6 11 | 5,220 | 0 6 0 |
| 8,202 7 3 | 4,390 8 5 | 51,701 15 6 | ..... | 22,131 10 0 | 20,805 0 9 | 7,813 13 10 | 1,951 6 11 | 51,701 15 6 | 104,132 | 0 7 11 |
| ..... | 44 2 5 | 925 6 5 | ..... | ..... | ..... | 925 6 5 | ..... | 925 6 5 | 1,691 | 0 8 9 |
| 25,881 8 6 | 27,261 12 1 | 281,407 12 8 | 11,736 6 4 | 1,00,465 6 4 | 1,00,538 4 8 | 37,625 12 5 | 31,041 14 11 | 2,81,407 12 8 | 721,899 | 0 6 3 |

# B.—DISPENSARY VACCINATION.

Statement No. III, showing Dispensary Vaccination in the Bombay Presidency during the year 1895-96.

| Districts. | | Number of Dispensaries in each District to which a Vaccinator is attached. | Average number of Vaccinators attached to Dispensaries during the Season. | Total number of persons vaccinated. | | | Average number of persons vaccinated by each Vaccinator. | Primary Vaccination. | | | | Revaccination. | | Percentage of Successful Cases. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Revaccination. |
| | | | | | | | | | Under 1 year. | 1 and under 6. | Total of all Ages. | | | | |
| 1 | | 2 | 3 | 4 | | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Bombay City. | THE PRESIDENCY CIRCLE. | | | Males. | Females. | Total. | | | | | | | | | |
| | Her Majesty's Common Jail ... ... | ... | ... | R 96 | 4 | 100 | ... | ... | ... | ... | ... | 100 | 51 | ... | 51·00 |
| | Her Majesty's House of Correction ... | ... | ... | R 93 | ... | 93 | ... | ... | ... | ... | ... | 93 | 59 | ... | 63·44 |
| | Local Medical Practitioner. | ... | ... | P 3 | 2 | 5 | ... | 5 | 3 | 1 | 4 | ... | ... | 80·00 | ... |
| | TOTAL ... | ... | ... | P 3 | 2 | 5 | ... | 5 | 3 | 1 | 4 | 193 | 110 | 80·00 | 56·99 |
| | | | | R 189 | 4 | 193 | | | | | | | | | |
| Ahmedabad Collectorate. | THE GUJA'RAT REGISTRATION DISTRICT. | | | | | | | | | | | | | | |
| | Khárághoda ... | ... | ... | P 9 | 14 | 23 | ... | 23 | 16 | ... | 16 | 162 | 148 | 69·57 | 91·36 |
| | | | | R 162 | ... | 162 | | | | | | | | | |
| | Ahmedabad Central Prison ... | ... | ... | P 1 | 2 | 3 | ... | 3 | 3 | ... | 3 | 120 | 119 | 100·00 | 99·17 |
| | | | | R 120 | ... | 120 | | | | | | | | | |
| Mahi Kántha States. | Sádra ... ... | ... | ... | P 104 | 111 | 215 | ... | 217 | 169 | 16 | 186 | 48 | 20 | 85·72 | 41·67 |
| | | | | R 45 | 3 | 48 | | | | | | | | | |
| | TOTAL ... | ... | ... | P 114 | 127 | 241 | ... | 243 | 188 | 16 | 205 | 330 | 287 | 84·36 | 86·97 |
| | | | | R 327 | 3 | 330 | | | | | | | | | |
| BUSHIRE... ... ... | | ... | ... | P 158 | 180 | 338 | ... | 338 | 203 | 83 | 314 | ... | ... | 92·90 | ... |
| MUSKAT ... ... ... | | ... | ... | P 200 | 154 | 354 | ... | 365 | 83 | 143 | 353 | ... | ... | 96·71 | ... |
| TOTAL FOR THE | BRITISH TERRITORY ... | ... | ... | P 371 | 352 | 723 | ... | 734 | 308 | 227 | 690 | 475 | 377 | 94·01 | 79·37 |
| | | | | R 471 | 4 | 475 | | | | | | | | | |
| | NATIVE STATES... ... | ... | ... | P 104 | 111 | 215 | ... | 217 | 169 | 16 | 186 | 48 | 20 | 85·71 | 41·67 |
| | | | | R 45 | 3 | 48 | | | | | | | | | |
| GRAND TOTAL FOR THE BOMBAY PRESIDENCY ... ... | | ... | ... | P 475 | 463 | 938 | ... | 951 | 477 | 243 | 876 | 523 | 397 | 92·11 | 75·91 |
| | | | | R 516 | 7 | 523 | | | | | | | | | |

*Comparative Statement No. IV, showing the Number of Persons primarily vaccinated and the Number of those Persons who were successfully vaccinated in each of the undermentioned official years.*

| Establishment. | Persons Primarily Vaccinated. | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total Number | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. |
| | Years ending 31st March. | | | | | | | | | | | | | | | | | | | | | |
| | 1886. | | 1887. | | 1888. | | 1889. | | 1890. | | 1891. | | 1892.* | | 1893. | | 1894. | | 1895.† | | 1896. | |
| Government ... ... | 4,947 | 4,545 | 4,461 | 4,183 | 3,894 | 3,653 | 4,768 | 4,543 | 3,976 | 3,718 | 4,394 | 4,209 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Municipal ... ... | 58,083 | 55,631 | 57,523 | 55,484 | 62,774 | 60,208 | 67,019 | 62,963 | 67,306 | 63,367 | 67,512 | 64,221 | 72,637 | 69,258 | 72,842 | 69,076 | 68,511 | 63,970 | 68,823 | 64,130 | 72,305 | 65,980 |
| Local Fund ... ... | 471,789 | 454,756 | 470,964 | 451,857 | 487,441 | 466,469 | 500,656 | 476,642 | 509,306 | 482,945 | 494,661 | 467,764 | 528,112 | 497,894 | 517,682 | 486,177 | 517,195 | 484,219 | 524,306 | 488,575 | 534,077 | 497,062 |
| Cantonment ... ... | 1,518 | 1,442 | 1,474 | 1,402 | 1,906 | 1,856 | 2,282 | 2,197 | 2,044 | 2,006 | 1,852 | 1,815 | 1,904 | 1,830 | 2,967 | 2,773 | 2,067 | 1,959 | 2,114 | 2,038 | 2,484 | 2,370 |
| Native States ... ... | 294,426 | 279,746 | 300,564 | 285,003 | 311,721 | 296,157 | 310,994 | 296,213 | 308,408 | 294,002 | 308,210 | 296,305 | 323,933 | 311,756 | 323,345 | 309,676 | 310,367 | 296,012 | 113,114 | 107,728 | 119,069 | 113,407 |
| Dispensary ... ... | 20,298 | 18,926 | 17,699 | 16,505 | 8,501 | 7,879 | 6,703 | 6,020 | 5,479 | 4,800 | 5,010 | 4,369 | 4,033 | 3,611 | 3,306 | 2,976 | 3,233 | 2,637 | 1,313 | 1,121 | 938 | 876 |
| Army ... European.. | 206 | 188 | 317 | 280 | 401 | 359 | 378 | 297 | 192 | 154 | 230 | 182 | 392 | 305 | 430 | 295 | 149 | 67 | 171 | 111 | 214 | 144 |
| Army ... Native ... | 3,120 | 2,901 | 2,970 | 2,672 | 3,117 | 2,682 | 3,594 | 2,843 | 3,521 | 3,190 | 3,391 | 3,048 | 4,088 | 3,686 | 3,593 | 2,946 | 4,348 | 3,842 | 2,515 | 2,180 | 3,561 | 3,205 |
| Total ... | 854,387 | 818,135 | 855,972 | 817,386 | 879,755 | 839,263 | 896,394 | 851,718 | 900,232 | 854,182 | 885,260 | 841,913 | 935,099 | 888,290 | 924,165 | 873,919 | 905,870 | 852,706 | 712,356 | 665,883 | 732,648 | 683,044 |

Note.—Revaccinations are wholly excluded from this statement.

* From 1892, the vaccination work of Government vaccinators is included in the Káthiáwár State.

† From 1895, the figures of the Native States of Baroda, Cutch, Káthiáwár, Pálanpur and I'dar being shown separately in Appendix II, are excluded from this statement.

Statement No. V, showing particulars of Vaccination verified by Inspecting Officers in 1895-96.

| Districts or Circles. | | Total Number of persons vaccinated. | Total Number Inspected. | | Percentage of Inspections to Total Number Vaccinated. | | Percentage of Cases found successful of Total Number Inspected. | | Percentage of success reported by Vaccinators*. |
|---|---|---|---|---|---|---|---|---|---|
| | | | By Deputy Sanitary Commissioners. | By Inspectors and Superintendents. | By Deputy Sanitary Commissioners. | By Inspectors and Superintendents | By Deputy Sanitary Commissioners. | By Inspectors and Superintendents | |
| Western Registration District ... ... | Khándesh ... ... | 46,043 | 1,624 | 20,431 | 3·53 | 43·26 | 94·27 | 94·66 | 89·58 |
| | Násik... ... ... | 27,427 | 2,080 | 11,711 | 7·58 | 42·69 | 95·38 | 97·33 | 92·54 |
| | Thána ... ... | 23,888 | 1,059 | 10,279 | 4·07 | 39·53 | 97·07 | 97·55 | 90·43 |
| | Kolába ... ... | 19,111 | 2,126 | 9,649 | 12·28 | 43·11 | 94·69 | 98·40 | 92·70 |
| Presidency Circle ... | Bombay City ... | 27,935 | 8,689 | 10,072 | 31·10 | 36·06 | 93·39 | 94·54 | 73·17 |
| Central Registration District ... ... | Ahmednagar ... | 33,703 | 739 | 11,101 | 2·19 | 32·94 | 98 78 | 97·32 | 90·29 |
| | Poona ... ... | 36,650 | 2,847 | 10,991 | 7·77 | 29·99 | 98·35 | 96·41 | 89·77 |
| | Sholápur ... ... | 28,358 | 3,806 | 11,613 | 13·42 | 40·95 | 98·34 | 98·38 | 88·92 |
| | Sátára ... ... | 44,884 | 480 | 19,639 | 1·07 | 43·75 | 99·17 | 99·10 | 89·49 |
| | Ratnágiri ... ... | 29,319 | 1,526 | 10,458 | 5·20 | 35·67 | 98·56 | 99·25 | 93 96 |
| Southern Registration District ... ... | Belgáum ... ... | 42,496 | 889 | 8,679 | 2·09 | 20·42 | 95·39 | 98·84 | 88·23 |
| | Dhárwár ... ... | 39,947 | 2,338 | 15,344 | 5·85 | 38·46 | 98·27 | 90·22 | 88·84 |
| | Bijápur ... ... | 33,698 | ... | 13,216 | ... | 39·22 | ... | 99·33 | 91·87 |
| | Kánara ... ... | 16,953 | 245 | 8,155 | 1·45 | 48·10 | 95·92 | 94·35 | 84·86 |
| Gujarát Registration District ... ... | Surat ... ... | 22,394 | 340 | 10,415 | 15·60 | 47·80 | 100·00 | 98·06 | 95·08 |
| | Broach ... ... | 11,068 | 1,281 | 3,363 | 11·57 | 30·38 | 97·35 | 97·26 | 95·63 |
| | Kaira... ... ... | 27,170 | 2,335 | 11,524 | 8·59 | 42·41 | 98·28 | 99·40 | 97·02 |
| | Panch Mahals ... | 11,942 | 1,271 | 4,533 | 10·64 | 37·96 | 98·19 | 98·70 | 97·55 |
| | Ahmedabad ... ... | 31,300 | ... | 9,604 | ... | 30·91 | ... | 98·31 | 92·41 |
| Sind Registration District ... ... ... | Karáchi ... ... | 27,157 | 3,377 | 6,179 | 12·44 | 22·75 | 98·52 | 93·11 | 87·55 |
| | Hyderabad ... ... | 28,901 | 4,064 | 10,586 | 14·06 | 36·63 | 97·76 | 96·26 | 84·68 |
| | Thar and Párkar .. | 14,166 | 2,204 | 5,801 | 15·56 | 40·95 | 99·05 | 93·66 | 89·79 |
| | Shikárpur ... ... | 37,665 | 2,373 | 15,728 | 6·30 | 41·76 | 96·29 | 92·83 | 86·19 |
| | Upper Sind Frontier. | 6,974 | 1,320 | 2,964 | 18·93 | 43·63 | 94·85 | 94·94 | 78·59 |
| | Grand Total ... | 669,149 | 47,013 | 252,035 | 7·03 | 37·67 | 95·55 | 99·01 | 89·51 |

* Percentage of success in this column is calculated on the total number reported by vaccinator as vaccinated.

*N. B.*—Native States are excluded from this statement.

# APPENDIX II.

## *Native States.*

Statement No. I, showing Particulars of Vaccination in the Native States of the Bombay Presidency during the year 1895-96.

| Number. | Circles and Districts. | Population of Districts according to Census of 1891. | Average Population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. | Primary Vaccinations. | | | | Re-vaccination. | | Percentage of Successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-Vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all Ages. | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | *Native States.* | | | | Males. | Females. | Total. | | | | | | | | | | | | | | |
| 1 | Baroda ... ... ... | 2,415,396 | 282 | 36 | P. 36,323<br>R. 2,728 | 32,913<br>503 | 69,236<br>3,231 | 2,013 | 69,476 | 59,064 | 6,168 | 65,705 | 3,231 | 2,245 | 94·80 | 69·40 | 28·10 | 68,267 | 28·2 | ... | ... |
| 2 | Cutch ... ... ... | 558,415 | 86 | 17 | P. 10,137<br>R. 358 | 9,879<br>26 | 20,016<br>384 | 1,200 | 20,016 | 15,3 | 3,084 | 19,105 | 384 | 202 | 95·44 | 52·60 | 34·57 | 19,193 | 95·96 | ... | ... |
| 3 | Káthiáwár ... ... | 2,752,404 | 132 | 53 | P. 46,686<br>R. 915 | 46,122<br>335 | 92,808<br>1,250 | 1,775 | 93,477 | 62,409 | 26,028 | 89,175 | 1,251 | 996 | 96·07 | 82·88 | 32·39 | ... | ... | ... | ... |
| 4 | Pálanpur ... ... .. | 645,526 | 83 | 11 | P. 11,659<br>R. 39 | 11,184<br>20 | 22,843<br>59 | 2,082 | 22,885 | 19,304 | 2,209 | 21,691 | 59 | 39 | 94·95 | 66·10 | 33·62 | ... | ... | ... | ... |
| 5 | I'dar (Mahi Kántha) ... | 278,580 | 110 | 4 | P. 3,714<br>R. 232 | 3,490<br>98 | 7,204<br>330 | 1,884 | 7,245 | 5,539 | 1,333 | 6,959 | 330 | 242 | 96·60 | 76·51 | 26·54 | 6,593 | 24·12 | ... | ... |
| | Total ... | 50,3 2 1 | 191 | 121 | P. 108,519<br>R. 4,272 | 103,588<br>982 | 212,107<br>5,254 | 1,796 | 213,099 | 162,069 | 38,822 | 202,635 | 5,255 | 3,724 | 95·53 | 70·88 | 31·03 | 94,053 | 14·14 | ... | ... |

## Statement No. II, showing the cost of the Vaccination Department in the Native States of the Bombay Presidency during the year 1895-96.

| No. | Names of Native States. | Establishment. | | | | | | | | | | | | | | Expenditure. | | | | Paid from | | | Total. | Number of all successful Vaccinations and Re-vaccinations. | Average cost of each successful case. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Deputy Sanitary Commissioners. | Superintendents of Circles. | Inspectors of Sanitation and Vaccination. | | | Assistant Superintendents of Vaccination. | | | Clerks and Kárkóns. | Vaccinators. | | | | Havaldars and Peons. | Pay of Establishment. | Travelling Allowances. | Contingencies. | Total Cost. | Provincial Funds. | Cantonment Funds. | Native States Funds. | | | |
| | | | | 1st Class. | 2nd Class. | 3rd Class. | 1st Class. | 2nd Class. | 3rd Class. | | Government. | Cantonment. | Candidates. | Native States. | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| | | | | | | | | | | | | | | | | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | | Rs. a. p. |
| 1 | Baroda ... ... ... | 1 | ... | 1 | 1 | 2 | ... | ... | ... | ... | ... | ... | 8 | 36 | 40 | 12,291 7 6 | 201 6 7 | 1,160 5 5 | 14,653 3 6 | ..... | ... | 14,653 3 6 | 14,653 3 6 | ... | 0 3 5 |
| 2 | Cutch ... ... ... | ... | 1 | ... | ... | ... | 2 | ... | ... | 1 | ... | ... | ... | 17 | 19 | 4,633 15 10 | 3,633 3 11 | ..... | 8,267 3 9 | ..... | ... | 8,267 3 9 | 8,267 3 9 | 19,307 | 0 6 10 |
| 3 | Káthiáwár ... ... | ... | 3 | ... | ... | 3 | .. | 1 | 2 | 5 | 1 | ... | 8 | 52 | 68 | 25,228 5 11 | 3,977 0 6 | 2,644 14 2 | 31,850 4 7 | 5,461 15 8 | ... | 26,388 4 11 | 31,850 4 7 | 90,153 | 0 5 7 |
| 4 | Pálanpur... ... ... | ... | ... | ... | ... | .. | ... | ... | 1 | ... | ½ | ½ | 1 | 10 | 12 | 4,094 6 0 | 33 10 0 | 358 2 9 | 4,486 2 0 | 122 6 2 | 122 6 3 | 4,241 5 7 | 4,486 2 0 | 21,730 | 0 3 1 |
| 5 | Idar ... ... ... | ... | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | 5 | 5 | 1,497 6 3 | ..... | 89 9 3 | 1,586 15 6 | ..... | ... | 1,586 15 6 | 1,586 15 6 | ... | ... |
| | Total ... | 1 | 4 | 1 | 2 | 5 | 2 | 1 | 3 | 6 | 1½ | ½ | 17 | 120 | 144 | 48,745 9 6 | 7,845 5 0 | 4,252 14 10 | 60,843 13 4 | 5,584 5 10 | 122 6 3 | 55,137 1 3 | 60,843 13 4 | 131,190 | 0 7 5 |

*Comparative Statement No. IV, showing the Number of Persons primarily vaccinated and the Number of those Persons who were successfully vaccinated in each of the undermentioned official years.*

| Native States. | Persons Primarily Vaccinated. | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total Number. | Number successfully vaccinated. | Total Number. | Number Successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. |
| | Years ending 31st March. | | | | | | | | | | | | | | | | | | | | | |
| | 1886. | | 1887. | | 1888. | | 1889. | | 1890. | | 1891. | | 1892. | | 1893. | | 1894. | | 1895. | | 1896. | |
| Baroda ... ... | 65,991 | 63,502 | 68,039 | 65,506 | 71,800 | 69,280 | 70,777 | 68,156 | 69,246 | 66,469 | 70,989 | 68,509 | 70,389 | 68,163 | 72,557 | 69,874 | 66,504 | 64,028 | 65,589 | 62,851 | 69,236 | 65,705 |
| Cutch .. .. | 20,919 | 20,710 | 20,862 | 20,669 | 22,465 | 22,36[illegible] | 21,125 | 20,799 | 21,478 | 21,227 | 20,492 | 20,190 | 21,593 | 20,503 | 18,428 | 17,567 | 19,832 | 18,589 | 19,738 | 18,904 | 20,016 | 19,105 |
| Káthiawar ... | 83,836 | 76,149 | 86,186 | 77,646 | 84,823 | 76,79[illegible] | 82,857 | 76,393 | 83,716 | 77,909 | 81,018 | 76,818 | 82,783 | ... | 86,024 | 81,194 | 86,444 | 82,027 | 91,782 | 87,205 | 92,808 | 89,175 |
| Pálanpur ... | 19,131 | 18,214 | 19,483 | 18,705 | 23,371 | 21,97[illegible] | 22,062 | 20,629 | 18,622 | 17,551 | 19,534 | 19,024 | 21,443 | ... | 18,124 | 17,609 | 16,184 | 15,065 | 19,893 | 18,950 | 22,843 | 21,691 |
| I'dar ... .. | This information is not available | | | | | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 6,647 | 6,539 | 5,563 | 5,431 | 7,204 | 6,959 |
| Total ... | ,877 | 178,575 | 194,570 | 182,526 | 202,459 | 190,413 | 196,821 | 185,977 | 193,062 | 183,156 | 192,033 | 184,541 | 196,208 | ... | 195,133 | 186,244 | 195,611 | 186,248 | 202,565 | 193,341 | 212,107 | 202,635 |

*N.B.*—This statement is given in Appendix II, in accordance with Government Resolution in the General Department No. 5091 of 23rd November 1895.

*Annual Reports.*—
Annual Report on Vaccination in the Bombay Presidency for the year 1895-96.

General Department.
No. 4097

Bombay Castle,
17th September 1896.

Letter from the Sanitary Commissioner for the Government of Bombay, No. 1892-B., dated the 15th June 1896—

Submitting the Annual Report on Vaccination in the Bombay Presidency for the year 1895-96.

RESOLUTION.—The total cost of the Vaccination Department rose from Rs. 2,76,130 in 1894-95 to Rs. 2,81,408 in 1895-96. Of this sum, Rs. 1,12,202 were provided from Provincial Revenues, and the remainder was contributed in various proportions by Municipalities, Local Boards and Native States. The word "Imperial" should have been struck out of the financial table in paragraph 46 of the Report.

2. The number of primary vaccinations reported during the year was 732,648, or 20,292 more than those reported in 1894-95. The number of re-vaccinations was 78,156 or 16,986 more than in the previous year. The increase in primary vaccinations was distributed over all portions of the Presidency except the Central Registration District. In this District there was a considerable decrease, which, however, is satisfactorily explained as due to the fact that the extensive operations of previous years have left few besides newly-born infants to protect. The increase in re-vaccinations was most marked in the Presidency Circle. The percentages of success in vaccinations (93·23) and re-vaccinations (57·88) did not differ materially from those of the previous year. In connexion with these figures it is observed that the number of children under one year reported to have been successfully vaccinated in the City of Bombay, and in the districts of Ahmedabad and Shikárpur exceeded (in Bombay very considerably) the number of children of that age which, according to the birth and death registers, should have been in existence in those places. The Sanitary Commissioner considers that this fact may be explained by immigration into Bombay and by the inaccuracy of the birth registers there and elsewhere.

3. On the whole these results are satisfactory, and it is also satisfactory to observe that the Inspecting Staff displayed considerable activity, no less than 1,450 villages having been visited by Deputy Sanitary Commissioners and 12,384 by Inspectors and Assistant Superintendents. The greater portion of the vaccination work was tested by "calling names from the registers," a system which secures the inspection of all vaccinated children in the villages visited, except children whose absence is accounted for. The efficient working of this system depends in a great measure on the methods adopted for testing the sufficiency of the explanations offered for the absence of children. The absentees from the inspections of the Deputy Sanitary Commissioners were apparently more numerous than those from the inspections made by inferior officers, and were specially numerous in Sind. It is presumed that all possible enquiry is made for the purpose of ascertaining the true reasons for such defaults; and of course in cases of reported deaths it is possible to refer to the death register. The Sanitary Commissioner should be asked whether there would be any difficulty in classifying the alleged causes for the absence of vaccinated children from inspections.

4. It appears that only 7,070 of the 410,645 cases returned as vaccinated (*i.e.*, 1·72 per cent.) were registered by the vaccinators as "unsuccessful and doubtful," whereas the Inspectors found 8,078 of the much smaller number examined by them (*i.e.*, 2·76 per cent.) to be unsuccessful and 57,512 "bad" though

technically successful. The registers in about 1,450 villages were also tested by the five Deputy Sanitary Commissioners and 42,707 out of the 75,171 children entered as vaccinated were discovered by them. Of these, 1,058 or 2·47 per cent. were found to have been unsuccessfully and 9,033 badly vaccinated. The large number of absentees—32,368—is said to have been accounted for.

5. The report is, as usual, interesting, but may be made shorter, and perhaps more valuable, by omitting from the text mere repetitions of figures which already appear clearly in the statistical tables incorporated in the various paragraphs, and by substituting, where necessary, such comments as would elucidate or explain the facts implied. Paragraphs 23, 26 and 30 are instances in point. The report is also disfigured by many printer's errors, the most important of which is the substitution of "82,616" for "32,616" in the table in paragraph 48.

6. It is satisfactory to observe that the Sanitary Commissioner makes favourable mention of the manner in which Surgeon-Majors Channer, Street and Anderson, and Surgeon-Captains Dyson and Arnim, and Assistant Surgeon S. V. Kantak discharged their various duties, and of the tact and energy displayed by them. His Excellency in Council regrets the loss sustained by the public service in the retirement of Mr. Trimbak Anant, First Class Inspector, after a meritorious service of more than 42 years.

J. DE C. ATKINS,
Secretary to Government.

To

The Sanitary Commissioner for the Government of Bombay,
The Commissioner in Sind,
The Commissioner, N. D.,
The Commissioner, C. D.,
The Commissioner, S. D.,
All Collectors, including the Collectors and Deputy Commissioners in Sind,
The Municipal Commissioner for the City of Bombay,
The Compiler, General Administration Report for 1895-96,
The Accountant General.
} With copies of the Report.

The Government of India,
The Secretary of State for India.
} By letter.

The Editors' Table, Bombay,
The Editors' Table, Poona, *care of* the City Magistrate, Poona,
The Editors' Table, Belgaum, *care of* the Secretary, Belgaum Municipality,
The Editor of the *Dhárwár Vritt* (for his own use and for the use of the Editors of other newspapers at Dhárwár).

# REPORT

ON

# VACCINATION

IN THE

# BOMBAY PRESIDENCY

FOR THE YEAR

## 1898-99.

*WITH APPENDICES.*

LIBRARY OF THE BOMBAY BRANCH OF THE ROYAL ASIATIC SOCIETY

Bombay:
PRINTED AT THE GOVERNMENT CENTRAL PRESS.

1899.

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# VACCINATION REPORT

FOR THE

## YEAR 1898-99.

Vaccination Report.

This, the report on vaccination in the Bombay Presidency for the year 1898-99, is the full report which is submitted every third year.

Changes amongst the supervising officers.

2. The changes amongst the supervising officers, which took place between 1st April 1898 and 31st March 1899, were as follows:—

(*a*) In the Western Registration District, Dr. E. Maynard, Acting Civil Surgeon, Násik, held charge from 1st April to 31st May 1898. Major A. V. Anderson, I. M. S., the permanent incumbent, was in charge of the district from 1st June to 28th November 1898, and Captain C. T. Hudson, I. M. S., Acting Civil Surgeon, Násik, was in charge from 29th November 1898 to the end of the year during the absence of Major Anderson on Plague duty.

(*b*) In the Central Registration District, Captain J. B. Smith, I. M. S., Assistant Civil Surgeon, Poona, acted as Deputy Sanitary Commissioner from 16th July to 21st October 1898, while Lieut.-Colonel A. W. F. Street, D. S. O., I. M. S., was on privilege leave. Lieut.-Colonel Street, having, on the 14th January, been appointed to act as Sanitary Commissioner, Bombay, handed over the charge of the office to Captain A. Hooton, I. M. S., Assistant Civil Surgeon, Poona, on 23rd March 1899, and the latter officer continues to act.

(*c*) In the Gujarát Registration District, Lieut.-Colonel K. S. Nariman, I. M. S., Civil Surgeon, Surat, was in charge of the district from 21st May 1898 to the end of the year, *vice* Major T. E. Dyson, I. M. S., on leave, and Acting Ophthalmic Surgeon, Grant Medical College, Bombay.

(*d*) In the Sind Registration District, the Civil Surgeon, Karáchi, was in charge from 1st to 20th April. The permanent incumbent, Captain H. C. L. Arnim, D.P.H., I. M. S., returned from Plague duty in Bombay on 21st and continued in charge up to 1st December 1898, when he went on 2 months and 25 days' privilege leave. During his absence his duties were carried on by Lieut.-Colonel J. McCloghry, Civil Surgeon, Karáchi.

Vaccination in Native States.

3. The vaccination statistics of the following Native States are shown separately in Appendix II:—

| | | |
|---|---|---|
| Baroda. | I'dar. | Pálanpur. |
| Cutch. | Káthiáwár. | Cambay. |

By Government Resolution in the Political Department, No. 5868, dated 18th October 1898, the Cambay State is permitted to maintain a complete vaccination organization of its own. The vaccination statistics of this State for the year under report are, therefore, shown separately in Appendix II.

Strength of the Department.

4. The subjoined table shows in detail the strength of the department during the year 1898-99, contrasted with that of the preceding year:—

| Number. | Districts, &c. | Area in square miles. | Population according to Census of 1891. | Deputy Sanitary Commissioners. | Superintendents of Vaccination. | Inspectors of Sanitation and Vaccination. | Assistant Superintendents of Vaccination. | Clerks. | Number of Vaccinators. | | | | | | Number of Peons and Karkuns. | | | | | | Total Strength. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Municipal. | Cantonment. | Local Fund. | | Native States. | Total. | Government. | Municipal. | Local Fund. | Cantonment. | Native States. | Total. | |
| | | | | | | | | | | | Vaccinators. | Candidates. | | | | | | | | | |
| 1 | Western Registration District ... ... | 24,546 | 3,898,814 | 1 | ... | 8 | ... | 2 | 5 | 1 | 74 | 8 | 4 | 92 | 12 | 5 | 75 | ... | 4 | 96 | 199 |
| 2 | Presidency Circle ... | 22 | 821,764 | ... | 1 | ... | 1 | 5 | 9 | ... | ... | ... | ... | 9 | ... | 20 | ... | ... | ... | 20 | 36 |
| 3 | Central Registration District ... ... | 28,702 | 5,595,079 | 1 | ... | 8 | ... | 2 | 9 | 1 | 74 | 6 | 12 | 102 | 10 | 8 | 74 | 1 | 13 | 106 | 219 |
| 4 | Southern Registration District ... ... | 28,781 | 4,956,428 | 1 | ... | 13 | 1 | 4 | 8 | ... | 62 | 11 | 33 | 114 | 10 | 7 | 62 | ... | 41 | 120 | 253 |
| 5 | Gujarát Registration District ... ... | 25,462 | 4,292,345 | 1 | ... | 6 | ... | 2 | 7 | ... | 43 | 5 | 24 | 79 | 9 | 7 | 43 | ... | 25 | 84 | 172 |
| 6 | Sind Registration District ... ... ... | 54,123 | 3,003,711 | 1 | 1 | 6 | ... | 2 | 8 | ... | 54 | 5 | 4 | 71 | 10 | 14 | 60 | ... | 4 | 88 | 169 |
| 7 | Aden ... ... ... | 1,160 | 44,079 | ... | ... | ... | ... | ... | 3 | ... | ... | ... | ... | 3 | ... | 1 | ... | ... | ... | 1 | 4 |
| | Total for 1898-99 ... | 162,796 | 22,612,220 | 5 | 2 | *41 | 2 | *17 | 49 | 2 | 307 | *35 | 77 | 470 | 51 | 62 | 314 | 1 | 87 | 515 | 1,052 |
| | Total for 1897-98 ... | 163,146 | 22,701,942 | 5 | 2 | *41 | 2 | *16 | 49 | 2 | 307 | *34 | 78 | 470 | 51 | 62 | 314 | 1 | 88 | 516 | 1,059 |

* Establishments of the Native States are included in these figures.

5. The Jamkhandi State entertained a clerk and a candidate vaccinator, and this causes an increase of one under each of these heads. There is a decrease of one vaccinator and one peon under Native States caused by the Cambay State Vaccination establishment being transferred from this Department to the State.

Increase or decrease in the strength.

*Progress of Vaccination.*

6. The various details will be found in the tables submitted. Only changes in the staff, area, &c., and anything calling for remark, are mentioned in the following paragraphs:—

Aden.

(*a*) At Aden an additional vaccinator was engaged for duty at Steamer Point, owing to the prevalence of small-pox in Southern Arabia. A vaccinator was sent to Lahej at the urgent request of the Sultán of that place. As mentioned elsewhere, the Arabs in the interior of Arabia are beginning to appreciate the benefits of vaccination.

Bushire and Muskat.

(*b*) The Dispensary Medical Officer at Bushire and Muskat performed 136 and 705 operations respectively.

Southern Registration District.

(*c*) One clerk and one candidate vaccinator were entertained by the Jamkhandi State.

Gujarát Registration District.

(*d*) The vaccination establishment of the Cambay State consisted of one vaccinator, and a peon was transferred from the control of this Department to that of the State.

Primary vaccination.

7. The following table shows, for a series of years, the number of persons primarily vaccinated, their increase or decrease, and the success attained:—

| Primarily vaccinated. | Year ending 31st March. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1890. | 1891. | 1892. | 1893. | 1894. | 1895.* | 1896. | 1897. | 1898. | 1899. |
| Persons ... ... ... ... | 900,232 | 885,260 | 935,099 | 921,165 | 905,870 | 712,356 | 732,648 | 736,511 | 681,889 | 623,796 |
| Increase ... ... ... ... | 3,838 | ... | 49,839 | ... | ... | ... | 20,292 | 3,863 | ... | ... |
| Decrease ... ... ... ... | ... | 14,972 | ... | 10,934 | 18,295 | ... | ... | ... | 54,672 | 58,043 |
| Successful cases ... ... ... | 854,182 | 841,913 | 888,290 | 873,919 | 852,706 | 665,883 | 683,044 | 689,033 | 626,170 | 579,144 |
| Percentage of Success ... ... | 94·88 | 95·10 | 94·99 | 94·56 | 94·13 | 93·48 | 93·23 | 92·82 | 91·84 | 92·84 |

* From 1895, the vaccination statistics of the Baroda, Cutch, Káthiáwár, Pálanpur and Idar States have been excluded and shown separately.
† Statistics of the Cambay State are shown separately.

Revaccination.

8. The number of persons revaccinated, and the success attained for a series of years, are given below:—

| Revaccinated. | Year ending 31st March | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1890. | 1891. | 1892. | 1893. | 1894. | 1895. | 1896. | 1897. | 1898. | 1899. |
| Persons revaccinated ... ... | 58,470 | 46,487 | 62,966 | 62,593 | 68,541 | 61,170 | 78,156 | 74,212 | 62,811 | 51,154 |
| Do. successfully. | 36,346 | 28,459 | 39,006 | 36,770 | 40,640 | 35,625 | 45,238 | 43,598 | 36,926 | 29,143 |
| Percentage of success ... ... | 62·16 | 61·22 | 61·95 | 58·74 | 59·29 | 58·24 | 57·89 | 58·75 | 58·79 | 56·97 |

Total operations.

9. The subjoined table shows, for a series of years, the total number of persons primarily vaccinated and revaccinated, and the success attained:—

| Total vaccinated. | Year ending 31st March | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1890. | 1891. | 1892. | 1893. | 1894. | 1895. | 1896. | 1897. | 1898. | 1899. |
| Persons operated on ... ... | 958,702 | 931,747 | 998,065 | 986,758 | 974,411 | 775,526 | 810,804 | 810,723 | 744,650 | 674,950 |
| Do. successfully. | 890,528 | 870,372 | 927,296 | 910,689 | 893,346 | 701,508 | 728,282 | 723,631 | 663,096 | 608,287 |
| Percentage of success ... ... | 92·39 | 93·41 | 92·91 | 92·29 | 91·68 | 90·69 | 89·82 | 89·26 | 89·05 | 90·12 |

10. In the following table are given the details of the total number of persons operated on during the last two years by vaccination districts and for the Army :—

Work amongst Civil and Military population.

| Districts, &c. | Persons primarily vaccinated. | | | | Persons re-vaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1897-98. | 1898-99. | Increase. | Decrease. | 1897-98. | 1898-99. | Increase. | Decrease. | 1897-98. | 1898-99. | Increase. | Decrease. |
| Western Registration District | 107,409 | 105,170 | ... | 2,239 | 6,065 | 4,812 | ... | 1,253 | 113,474 | 109,982 | ... | 3,492 |
| Presidency Circle ... ... | 12,852 | 13,098 | 246 | ... | 1,448 | 1,337 | ... | 111 | 14,300 | 14,435 | 135 | ... |
| Central Registration District... | 166,835 | 154,584 | ... | 12,251 | 6,044 | 5,522 | ... | 522 | 172,879 | 160,106 | ... | 12,773 |
| Southern do. do. ... | 157,931 | 118,471 | ... | 39,460 | 26,803 | 20,772 | ... | 6,031 | 184,734 | 139,243 | ... | 45,491 |
| Gujarát do. do. ... | 135,729 | 133,852 | ... | 1,877 | 4,064 | 3,508 | ... | 556 | 139,793 | 137,360 | ... | 2,433 |
| Sind do. do. ... | 91,971 | 89,808 | ... | 2,163 | 15,451 | 12,189 | ... | 3,262 | 107,422 | 101,997 | ... | 5,425 |
| Total ... | 672,727 | 614,983 | ... | 57,744 | 59,875 | 48,140 | ... | 11,735 | 732,602 | 663,123 | ... | 69,479 |
| Aden, Muskat, Bushire and Shaik Othman... ... | 5,487 | 6,327 | 840 | ... | 275 | 202 | ... | 73 | 5,762 | 6,529 | 767 | ... |
| British Army ... ... ... | 241 | 159 | ... | 82 | 429 | 378 | ... | 51 | 670 | 537 | ... | 133 |
| Native Army ... ... ... | 3,384 | 2327 | ... | 1,057 | 2,232 | 2,434 | 202 | ... | 5,616 | 4,761 | ... | 855 |
| Grand Total ... | 681,839 | 623,796 | ... | 58,043 | 62,811 | 51,154 | ... | 11,657 | 744,650 | 674,950 | .. | 69,700 |
| | ABSTRACT. | | | | | | | | | | | |
| Itinerant ... ... ... ... | 675,901 | 620,325 | ... | 55,576 | 59,495 | 47,425 | ... | 12,070 | 735,396 | 667,750 | ... | 67,646 |
| Dispensary ... ... ... | 2,313 | 985 | ... | 1,328 | 655 | 917 | 262 | ... | 2,968 | 1,902 | ... | 1,066 |
| Army ... ... ... ... | 3,625 | 2,486 | ... | 1,139 | 2,661 | 2,812 | 151 | ... | 6,286 | 5,298 | ... | 988 |
| Grand Total ... | 681,839 | 623,796 | ... | 58,043 | 62,811 | 51,154 | ... | 11,657 | 744,650 | 674,950 | ... | 69,700 |

11. There is a decrease in all the districts, except the Presidency Circle; it is greatest in the Southern District, where a low birth-rate for the last two years and a severe plague epidemic during the present year greatly interfered with work, which was also affected by the absence of some Inspectors and Vaccinators on plague duty. In parts of the Dhárwár Collectorate vaccination work had to be entirely suspended for some time.

Reasons of decrease.

The increase in the Presidency Circle is only trifling; work there has not yet recovered from the detrimental effects of the presence of Plague which have ever since the end of 1896 greatly reduced the amount of work being done.

The decrease is due in the Central District to two years of very low birth-rate, a high death-rate in 1897, and to the presence of Plague; in Sind to movements of the people in parts on account of scarcity, and to Plague; in the Western District to a low birth-rate and Plague; and in Gujarát to Plague in parts.

Work in nearly all the districts was affected by the absence of Deputy Sanitary Commissioners, and by their posts not being filled by full-time officers. In some districts, Inspectors and Vaccinators have been absent on plague duty.

12. The following table shows the number of infants successfully vaccinated in the Presidency, exclusive of Native States. As usual, the birth and death statistics are taken for the calendar year in calculating the number available for vaccination :—

Infants successfully vaccinated as compared with number available, *i.e.*, births *minus* deaths.

| No. | Collectorates. | Births returned as having been registered. | Deaths registered among children under one year. | Children available for vaccination. | Children under one year vaccinated successfully. | Children under one year remained to be vaccinated. | Percentage of infants protected to infants available. |
|---|---|---|---|---|---|---|---|
| 1 | Khándesh ... ... | 59,497 | 11,612 | 47,885 | 30,199 | 17,686 | 63·07 |
| 2 | Násik ... ... | 31,476 | 6,014 | 25,462 | 15,927 | 9,535 | 62·55 |
| 3 | Thána ... ... | 24,708 | 3,363 | 21,345 | 14,751 | 6,614 | 69·11 |
| 4 | Bombay City ... | 10,544 | 6,223 | 4,321 | 9,651 | ... | 223·35 |
| 5 | Kolába ... ... | 19,665 | 2,379 | 17,286 | 12,842 | 4,444 | 74·29 |
| 6 | Ahmednagar ... | 31,823 | 5,771 | 26,052 | 23,520 | 2,532 | 90·28 |
| 7 | Poona ... ... | 31,535 | 5,499 | 26,036 | 19,867 | 6,169 | 76·31 |
| 8 | Sholápur ... ... | 21,575 | 3,663 | 17,912 | 16,808 | 1,104 | 93·84 |
| 9 | Sátára ... ... | 36,358 | 4,898 | 31,460 | 23,848 | 7,612 | 75·80 |
| 10 | Ratnágiri ... ... | 27,118 | 2,603 | 24,515 | 18,473 | 6,042 | 75·35 |
| 11 | Belgaum ... ... | 33,780 | 3,946 | 29,834 | 19,392 | 10,442 | 65·00 |
| 12 | Dhárwár ... ... | 36,609 | 6,299 | 30,310 | 14,956 | 15,534 | 49·34 |
| 13 | Bijápur ... ... | 22,138 | 2,435 | 19,703 | 16,199 | 3,504 | 82·22 |
| 14 | Kánara ... ... | 10,601 | 2,085 | 8,516 | 4,902 | 3,614 | 57·56 |
| 15 | Surat ... ... | 24,293 | 4,216 | 20,077 | 16,556 | 3,521 | 82·46 |
| 16 | Broach ... ... | 13,826 | 3,312 | 10,514 | 8,628 | 1,886 | 82·06 |
| 17 | Kaira ... ... | 34,290 | 6,248 | 28,042 | 22,170 | 5,872 | 79·06 |
| 18 | Panch Maháls ... | 13,266 | 1,777 | 11,489 | 9,361 | 2,128 | 81·48 |
| 19 | Ahmedabad... ... | 30,315 | 5,594 | 24,721 | 24,906 | ... | 100·75 |
| 20 | Karáchi ... ... | 15,510 | 2,815 | 12,695 | 10,073 | 2,622 | 79·35 |
| 21 | Hyderabad ... ... | 14,991 | 2,007 | 12,984 | 13,753 | ... | 105·92 |
| 22 | Thar and Párkar ... | 9,412 | 1,344 | 8,068 | 5,918 | 2,150 | 73·35 |
| 23 | Shikárpur ... ... | 24,469 | 4,696 | 19,773 | 24,470 | ... | 123·75 |
| 24 | Upper Sind Frontier. | 4,572 | 791 | 3,781 | 3,783 | ... | 100·05 |
| | Total. 1898-99 ... | 582,371 | 99,590 | 482,781 | 380,953 | 101,828 | 78·91 |
| | Total. 1897-98 ... | 629,693 | 136,453 | 493,240 | 417,924 | 75,316 | 84·73 |

The high rate in Bombay City is due to defective birth registration and to the fact that a certain number of children are brought into the city by people who come for work. It is the custom in some cases for a woman to leave Bombay for her delivery; this tends to raise the rate, as the birth is not registered in Bombay; but in all probability the child is vaccinated on the woman's return to the city.

The rates for the Central and Gujarát districts are good, especially those for the Collectorates of Ahmednagar and Sholápur in the former, as in these the registration of births is well carried out.

In Sind the high rates are due to defective birth registration.

Particulars of vaccine operations.

13. The following table specifies caste, age, sex, total operations, and the results in primary operations and re-vaccinations, by districts and for the Army, and contrasts the totals with those of 1897-98 :—

# STATEMENT.

| Districts, &c. | Persons primarily vaccinated. Caste. Christians. | Hindus. | Musalmáns. | Pársis. | Other Castes. | Age. N. = Number. S. = Successful. Under 1 year. | Between 1 and 6 years. | All other ages. | Total Number of Persons operated on. P. = Primary Vaccinations. R. = Revaccinations. Sex. Males. | Females. | Total. | Results. Successful. | Unsuccessful. | Unknown. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Western Registration District. | 772 | 97,953 | 4,584 | 89 | 1,772 | N. 82,929 | N. 21,502 | N. 739 | P. 52,759 | P. 52,411 | P. 105,170 | P. 97,334 | P. 1,633 | P. 6,366 | P. 105,333 |
| | | | | | | S. 77,160 | S. 19,548 | S. 626 | R. 3,074 | R. 1,738 | R. 4,812 | R. 2,327 | R. 1,749 | R. 737 | R. 4,813 |
| | | | | | | | | | 55,833 | 54,149 | 109,982 | 99,661 | 3,382 | 7,103 | 110,146 |
| Presidency Circle. | 605 | 7,095 | 2,612 | 986 | 1,800 | N. 10,096 | N. 2,820 | N. 182 | P. 6,526 | P. 6,572 | P. 13,098 | P. 12,434 | P. 135 | 579 | P. 13,148 |
| | | | | | | S. 9,655 | S. 2,626 | S. 153 | R. 1,300 | R. 37 | R. 1,337 | R. 285 | R. 284 | 768 | R. 1.337 |
| | | | | | | | | | 7,826 | 6,609 | 14,435 | 12,719 | 419 | 1,347 | 14,485 |
| Central Registration District. | 730 | 129,417 | 8,313 | 108 | 16,015 | N. 120,911 | N. 32,182 | N. 1,491 | P. 78,887 | P. 75,697 | P. 154,584 | P. 142,270 | P. 1,066 | P. 11,348 | P. 154, 684 |
| | | | | | | S. 111,896 | S. 29,287 | S. 1,087 | R. 4,644 | R. 878 | R. 5,522 | R. 3,067 | R. 1,022 | R. 1,436 | R. 5,525 |
| | | | | | | | | | 83,531 | 76,575 | 160,106 | 145,337 | 2,088 | 12,784 | 160,209 |
| Southern do. .. | 849 | 99,627 | 10,158 | 7 | 7,630 | N. 88,897 | N. 25,347 | N. 4,227 | P. 60,816 | P. 57,655 | P. 118,471 | P. 109,149 | 1,584 | P. 7,855 | P. 118,588 |
| | | | | | | S. 82,697 | S. 23,255 | S. 3,197 | R. 16,409 | R. 4,363 | R. 20,772 | R. 12,510 | 2,308 | R. 5,954 | R. 20,772 |
| | | | | | | | | | 77,225 | 62,018 | 139,243 | 121,659 | 3,892 | 13,809 | 139,360 |
| Gujarát do. .. | 144 | 114,358 | 9,652 | 288 | 8,910 | N. 111,290 | N. 21,785 | N. 777 | P. 69,221 | P. 64,631 | P. 133,852 | P. 130,386 | P. 1,270 | P. 2,374 | P. 134,030 |
| | | | | | | S. 108,517 | S. 21,116 | S. 753 | R. 3,043 | R. 465 | R. 3,508 | R. 2,122 | R. 651 | R. 735 | R. 3,508 |
| | | | | | | | | | 72,264 | 65,096 | 137,360 | 132,508 | 1,921 | 3,109 | 137,538 |
| Sind do. .. | 134 | 14,884 | 66,742 | 54 | 7,994 | N. 66,465 | N. 20,760 | N. 2,583 | P. 48,116 | P. 41,692 | P. 89,808 | P. 81,773 | P. 1,017 | P. 7,182 | P. 89,972 |
| | | | | | | S. 61,220 | S. 18,221 | S. 2,332 | R. 6,189 | R. 6,000 | R. 12,189 | R. 7,285 | R. 1,632 | R. 3,275 | R. 12,192 |
| | | | | | | | | | 54,305 | 47,692 | 101,997 | 89,058 | 2,649 | 10,457 | 102,164 |
| Aden .. .. | 28 | 43 | 6,001 | 15 | 240 | N. 236 | N. 763 | N. 5,268 | P. 5,242 | P. 1,085 | P. 6,327 | P. 3,654 | P. 346 | P. 2,340 | P. 6,340 |
| | | | | | | S. 253 | S. 620 | S. 2,781 | R. 162 | R. 40 | R. 202 | R. 83 | R. 41 | R. 78 | R. 202 |
| | | | | | | | | | 5,404 | 1,125 | 6,529 | 3,737 | 387 | 2,418 | 6,542 |
| British Army .. | 111 | 31 | 4 | 1 | 12 | N. 119 | N. 30 | N. 10 | P. 87 | P. 72 | P. 159 | P. 99 | P. 54 | P. 6 | P. 159 |
| | | | | | | S. 74 | S. 18 | S. 7 | R. 371 | R. 7 | R. 378 | R. 174 | R. 204 | R. ... | R. 378 |
| | | | | | | | | | 458 | 79 | 537 | 273 | 258 | 6 | 537 |
| Native Army ... | 45 | 1,455 | 754 | 5 | 68 | N. 1821 | N. 211 | N. 295 | P. 1,429 | P. 898 | P. 2,327 | P. 2,045 | P. 279 | P. 4 | P. 2,328 |
| | | | | | | S. 1,689 | S. 182 | S. 174 | R. 2,329 | R. 105 | R. 2,434 | R. 1,290 | R. 1,138 | R. 6 | R. 2,434 |
| | | | | | | | | | 3,758 | 1,003 | 4,761 | 3,335 | 1,417 | 10 | 4,762 |
| Total for the Presidency for 1898-99. | 3,418 | 465,563 | 108,820 | 1,553 | 44,442 | N. 482,824 | N. 125,400 | N. 15,672 | P. 323,093 | P. 300,713 | P. 623,796 | P. 579,144 | P. 7,384 | P. 38,054 | P. 624,582 |
| | | | | | | S. 463,161 | S. 114,873 | S. 11,110 | R. 37,521 | R. 13,633 | R. 51,154 | R. 29,143 | R. 9,029 | R. 12,959 | R. 51,161 |
| | | | | | | | | | 360,604 | 314,346 | 674,950 | 608,287 | 16,413 | 51,043 | 675,743 |
| Total for the Presidency for 1897-98. | 4,010 | 509,618 | 111,954 | 1,802 | 54,455 | N. 545,066 | N. 120,156 | N. 16,077 | P. 351,030 | P. 330,809 | P. 681,839 | P. 626,170 | P. 9,181 | P. 47,508 | P. 682,859 |
| | | | | | | S. 506,349 | S. 108,059 | S. 11,763 | R. 45,917 | R. 16,894 | R. 62,811 | R. 36,946 | R. 9,670 | R. 16,261 | R. 62,857 |
| | | | | | | | | | 396,947 | 347,703 | 744,650 | 663,116 | 18,851 | 63,769 | 745,716 |

| Excess of Operations over Persons. | Ratio per 100. | | | | | | | | | | | | | | | Excess of Operations over Persons. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Persons primarily vaccinated. | | | | | | | | Total number of Persons operated on. | | | Results. | | | | |
| | Caste. | | | | | Age. | | | Sex. | | | | | | | |
| | Christians. | Hindus. | Musalmáns. | Pársis. | Other Castes. | Under 1 year. | Between 1 and 6 years. | All other ages. | Males. | Females. | Total. | Successful. | Unsuccessful. | Unknown. | Total. | |
| P. 163 | ·73 | 93·14 | 4·36 | ·08 | 1·69 | N. 78·85 | N. 20·35 | N. ·70 | P. 50·17 | P. 49·83 | P. 100· | P. 92·55 | P. 1·55 | P. 6·05 | P. 100·15 | P. ·15 |
| R. 1 | | | | | | S. 73·67 | S. 18·59 | S. ·60 | R. 63·88 | R. 36·12 | R. 100· | R. 48·36 | R. 36·35 | R. 15·32 | R. 100·02 | R. ·02 |
| 164 | ... | ... | ... | ... | ... | ... | ... | ... | 50·77 | 49·24 | 100· | 90·62 | 3·08 | 6·46 | 100·15 | ·15 |
| P. 50 | 4·62 | 54·17 | 19·94 | 7·53 | 13·74 | N. 77·08 | N. 21·53 | N. 1·39 | P. 49·82 | P. 50·18 | P. 100· | P. 94·93 | 1·03 | 4·43 | P. 100·38 | P. ·38 |
| R. ... | | | | | | S. 73·71 | S. 20·05 | S. 1·17 | R. 97·23 | R. 2·77 | R. 100· | R. 19·79 | 21·24 | 57·44 | R. 100· | R. ... |
| 50 | ... | ... | ... | ... | ... | ... | ... | ... | 54·22 | 45·72 | 100· | 88·11 | 2·90 | 9·33 | 100·35 | ·35 |
| P. 100 | ·47 | 83·72 | 5·38 | ·06 | 10·37 | N. 78·22 | N. 20·82 | N. ·96 | P. 51·03 | P. 48·97 | P. 100· | P. 91·97 | P. ·69 | P. 7·34 | P. 100·06 | P. ·06 |
| R. 3 | | | | | | S. 78·65 | S. 20·59 | S. ·76 | R. 84·10 | R. 15·90 | R. 100· | R. 51·51 | R. 18·50 | R. 25·99 | R. 100·05 | R. ·05 |
| 103 | ... | ... | ... | ... | ... | ... | ... | ... | 52·17 | 47·83 | 100· | 90·78 | 1·30 | 7·98 | 100·06 | ·06 |
| P. 117 | ·72 | 84·26 | 8·58 | ·01 | 6·44 | N. 75·04 | N. 21·40 | N. 3·57 | P. 51·33 | P. 48·67 | P. 100· | P. 92·13 | P. 1·34 | P. 6·63 | P. 100·10 | P. ·10 |
| R. ... | | | | | | S. 69·80 | S. 19·63 | S. 2·70 | R. 78·99 | R. 21·01 | R. 100· | R. 60·23 | R. 11·11 | R. 28·65 | R. 100· | R. ... |
| 117 | ... | ... | ... | ... | ... | ... | ... | ... | 55·46 | 44·54 | 100· | 87·37 | 2·79 | 9·92 | 100·08 | ·08 |
| P. 178 | ·11 | 85·81 | 7·21 | ·21 | 6·66 | N. 83·14 | N. 16·28 | N. ·58 | P. 51·71 | P. 48·29 | P. 100· | P. 97·41 | P. ·95 | P. 1·77 | P. 100·13 | P. ·13 |
| R. ... | | | | | | S. 81·07 | S. 15·78 | S. ·56 | R. 86·74 | R. 13·26 | R. 100· | R. 60·49 | R. 18·56 | R. 20·95 | R. 100· | R. ... |
| 178 | ... | ... | ... | ... | ... | ... | ... | ... | 52·61 | 47·39 | 100· | 96·47 | 1·40 | 2·26 | 100·13 | ·13 |
| P. 164 | ·15 | 16·57 | 74·32 | ·06 | 8·90 | N. 74·01 | N. 23·12 | N. 2·88 | P. 53·58 | P. 46·12 | P. 100· | P. 91·05 | P. 1·13 | P. 8·00 | P. 100·18 | P. ·18 |
| R. 3 | | | | | | S. 68·17 | S. 20·29 | S. 2·60 | R. 50·78 | R. 49·22 | R. 100· | R. 59·78 | R. 13·37 | R. 26·87 | R. 100·02 | R. ·02 |
| 167 | ... | ... | ... | ... | ... | ... | ... | ... | 53·24 | 46·76 | 100· | 87·34 | 2·60 | 10·25 | 100·16 | ·16 |
| P. 13 | ·44 | ·68 | 94·85 | ·24 | 3·79 | N. 4·68 | N. 12·05 | N. 83·26 | P. 82·85 | P. 17·45 | P. 100· | P. 57·75 | P. 5·47 | P. 36·98 | P. 100·21 | P. ·21 |
| R. ... | | | | | | S. 4·00 | S. 9·80 | S. 43·95 | R. 80·20 | R. 19·80 | R. 100· | R. 41·09 | R. 20·30 | R. 38·61 | R. 100· | R. ... |
| 13 | ... | ... | ... | ... | ... | ... | ... | ... | 82·77 | 17·23 | 100· | 57·24 | 5·93 | 37·03 | 100·20 | ·20 |
| P. ... | 69·81 | 19·50 | 2·52 | ·63 | 7·55 | N. 74·84 | N. 18·87 | N. 6·29 | P. 54·78 | P. 45·28 | P. 100· | P. 62·26 | P. 33·96 | P. 3·77 | P. 100· | P. ... |
| R. ... | | | | | | S. 46·54 | S. 19·50 | S. 4·40 | R. 98·15 | R. 1·85 | R. 100· | R. 46·03 | R. 53·97 | R. ... | R. 100· | R. ... |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | 85·29 | 14·71 | 100· | 50·84 | 48·04 | 1·12 | 100· | ... |
| P. 1 | 19·34 | 62·40 | 32·40 | ·21 | 2·92 | N. 78·26 | N. 9·07 | N. 12·68 | P. 61·41 | P. 38·59 | P. 100· | P. 87·88 | P. 11·99 | P. ·17 | P. 100·04 | P. ·04 |
| R. ... | | | | | | S. 72·58 | S. 7·82 | S. 7·48 | R. 95·69 | R. 4·31 | R. 100· | R. 53·00 | R. 46·75 | R. ·25 | R. 100· | R. ... |
| 1 | ... | ... | ... | ... | ... | ... | ... | ... | 78·93 | 21·07 | 100· | 70·05 | 29·76 | ·21 | 100·02 | ·02 |
| P. 786 | ·55 | 74·63 | 17·44 | ·25 | 7·12 | W. 77·40 | N. 20·10 | N. 2·50 | P. 51·79 | P. 48·21 | P. 100· | P. 92·84 | P. 1·18 | P. 6·10 | P. 100·13 | P. ·13 |
| R. 7 | | | | | | S. 72·64 | S. 18·42 | S. 1·78 | R. 73·35 | R. 26·65 | R. 100· | R. 56·97 | R. 17·65 | R. 25·39 | R. 100·01 | R. ·01 |
| 793 | ... | ... | ... | ... | ... | ... | ... | ... | 53·43 | 46·57 | 100· | 90·12 | 2·63 | 7·56 | 100·12 | ·12 |
| P. 1,020 | ·59 | 74·74 | 16.42 | ·26 | 7·99 | N. 80·02 | N. 17·62 | N. 2·36 | P. 51·48 | P. 48·52 | P. 100· | P. 91·84 | P. 1·34 | P. 06·97 | P. 100·15 | P. 15 |
| R. 46 | | | | | | S. 74·26 | S. 15·85 | S. 1·73 | R. 73·10 | R. 26·90 | R. 100· | R. 58·79 | R. 15·40 | R. 25·89 | R. 100·07 | R. ·07 |
| 1,066 | .. | ... | ... | ... | ... | ... | ... | ... | 53·31 | 46·69 | 100· | 89·05 | 2·53 | 8·56 | 100·14 | ·14 |

14. The following table shows, by districts, &c., the percentages of success in primary vaccination and re-vaccination, including unknown cases, contrasted with those for the previous year :—

Percentage of success, including "unknown" cases.

| Number. | Districts, &c. | Percentage of success in primary vaccination. | | Percentage of success in re-vaccination. | |
|---|---|---|---|---|---|
| | | 1897-98. | 1898-99. | 1897-98. | 1898-99. |
| 1 | Western Registration District ... ... | 92·19 | 92·55 | 53·83 | 48·38 |
| 2 | Presidency Circle ... ... ... | 94·50 | 94·96 | 29·90 | 21·32 |
| 3 | Central Registration District ... ... | 89·69 | 92·03 | 51·98 | 55·51 |
| 4 | Southern do. ... ... | 91·70 | 92·13 | 62·65 | 60·28 |
| 5 | Gujarát do. ... ... | 97·05 | 97·42 | 59·23 | 60·49 |
| 6 | Sind do. ... ... | 88·98 | 91·05 | 58·34 | 59·96 |
| 7 | Aden, Bushire, Muskat and Shaik Othman ... | 44·22 | 57·75 | 50·00 | 41·09 |
| 8 | British Army ... ... ... | 77·59 | 62·26 | 49·42 | 46·03 |
| 9 | Native do. ... ... ... | 77·36 | 87·88 | 67·34 | 53·00 |
| | Average for the Presidency ... | 91·84 | 92·84 | 58·79 | 56·97 |

15. The following table shows the percentages of success, both in primary vaccination and re-vaccination, excluding "unknown" cases, during 1898-99, contrasted with those for the preceding year :—

Percentage of success, excluding "unknown" cases.

| Number. | Districts, &c. | Percentage of success in primary vaccination. | | Percentage of success in re-vaccination. | |
|---|---|---|---|---|---|
| | | 1897-98. | 1898-99. | 1897-98. | 1898-99. |
| 1 | Western Registration District ... ... | 98·21 | 98·35 | 63 82 | 57·09 |
| 2 | Presidency Circle ... ... ... ... | 98·55 | 98·93 | 56·97 | 50·09 |
| 3 | Central Registration District ... ... ... | 99·11 | 99·26 | 75·94 | 75·01 |
| 4 | Southern do. ... ... ... | 98·97 | 98·57 | 86·37 | 50·41 |
| 5 | Gujarát do. ... ... ... | 98·65 | 99·04 | 75·95 | 76·52 |
| 6 | Sind do. ... ... ... | 97·84 | 98·77 | 81·03 | 81·72 |
| 7 | Aden, Bushire, Muskat and Shaik Othman ... | 88·10 | 91·35 | 76·47 | 66·94 |
| 8 | British Army ... ... ... ... ... | 77·59 | 64·71 | 49·53 | 46·03 |
| 9 | Native do. ... ... ... ... ... | 86·35 | 87·99 | 68·19 | 53·13 |
| | Average for the Presidency ... | 98·55 | 98·75 | 79·25 | 76·36 |

The average percentage of success in primary vaccination is slightly higher and in re-vaccination somewhat lower than last year; the Native Army, Aden

&c., and the British Army show a low percentage in primary operations, which is chiefly due to the use of preserved lymph, but Aden, &c., have a better result than in the preceding year.

Successful vaccinations per mille of population.

16. The subjoined table gives the rate of successful primary vaccination of children under one year, and the total successful primary vaccinations per mille of population, for each Collectorate and for those Native States the vaccination work of which is under the supervision of the Sanitary Department :—

| Districts. | Number of successful primary vaccinations of children under one year per mille of population. | Total number of successful primary vaccinations per mille of population. |
|---|---|---|
| **British Districts.** | | |
| *Western Registration District.* | | |
| Khándesh ... ... ... ... ... | 20·67 | 25·87 |
| Násik ... ... ... ... ... ... | 18·88 | 23·05 |
| Thána ... ... ... ... ... ... | 18·02 | 24·42 |
| Kolába... ... ... ... ... ... | 21·59 | 26·81 |
| *Presidency Circle.* | | |
| Bombay City ... ... ... ... ... | 11·75 | 29·73 |
| *Central Registration District.* | | |
| Ahmednagar ... ... ... ... ... | 26·46 | 31·23 |
| Poona ... ... ... ... ... ... | 18·60 | 24·47 |
| Sholápur ... ... ... ... ... | 22·39 | 27·70 |
| Sátára ... ... ... ... ... ... | 19·45 | 20·54 |
| Ratnágiri ... ... ... ... ... | 16·70 | 24·37 |
| *Southern Registration District.* | | |
| Belgaum ... ... ... ... ... | 19·14 | 23·23 |
| Dhárwár ... ... ... ... ... | 14·22 | 17·26 |
| Bijápur ... ... ... ... ... | 20·34 | 25·47 |
| Kánara ... ... ... ... ... | 10·98 | 24·12 |
| *Gujarát Registration District.* | | |
| Surat ... ... ... ... ... ... | 24·82 | 30·57 |
| Broach ... ... ... ... ... | 25·27 | 28·92 |
| Kaira... ... ... ... ... ... | 25·44 | 28·65 |
| Panch Mahals ... ... ... ... ... | 29·21 | 32·94 |
| Ahmedabad ... ... ... ... ... | 27·02 | 29·65 |
| *Sind Registration District.* | | |
| Karáchi ... ... ... ... ... | 17·83 | 30·59 |
| Hyderabad ... ... ... ... ... | 15·55 | 20·44 |
| Thar and Párkar ... ... ... ... ... | 17·81 | 26·76 |
| Shikárpur ... ... ... ... ... | 26·72 | 30·35 |
| Upper Sind Frontier ... ... ... ... | 21·67 | 28·17 |
| *Native State.* | | |
| States in Western Registration District ... ... ... | 19·03 | 21·86 |
| Do. Central do. ... ... ... | 16·87 | 22·41 |
| Do. Southern do. ... ... ... | 16·52 | 22·03 |
| Do. Gujarát do. ... ... ... | 22·92 | 31·79 |
| Do. Sind do. ... ... ... | 24·41 | 36·39 |

Available infants estimated at 31 per mille of population.

**17.** The following table shows, by districts, &c., the number of children under one year protected out of those available for vaccination at the rate of 31 per mille of population, the number which remained unprotected, and the percentages of the protected and unprotected for the year and for two quinquennial periods :—

| Registration District, &c. | Population according to census of 1891. | Children under one year available for vaccination at 31 per mille of population. | Children under one year vaccinated successfully. | | | | Children under one year remained to be vaccinated. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Number. | Per cent. protected of available. | | | Number. | Per cent. | | |
| | | | | 1898-99. | Quinquennium 1888-89 to 1892-93. | Quinquennium 1893-94 to 1897-98. | | 1898-99. | Quinquennium 1888-89 to 1892-93. | Quinquennium 1893-94 to 1897-98. |
| Western ... ... ... ... | 3,898,814 | 120,863 | 77,160 | 63·84 | 55·88 | 68·81 | 43,703 | 36·16 | 44·12 | 31·19 |
| Presidency Circle ... ... | 821,764 | 25,475 | 9,655 | 38·00 | 61·90 | 49·00 | 15,820 | 62·10 | 38·10 | 50·99 |
| Central ... ... ... ... | 5,595,079 | 173,447 | 111,896 | 64·51 | 84·74 | 80·53 | 61,551 | 35·49 | 15·26 | 19·47 |
| Southern ... ... ... ... | 4,956,428 | 153,649 | 82,697 | 53·82 | 68·23 | 75·46 | 70,952 | 46·18 | 31·77 | 24·54 |
| Gujarát ... ... ... ... | 4,292,345 | 132,950 | 108,517 | 81·62 | 75·63 | 78·18 | 24,433 | 18·38 | 24·37 | 21·82 |
| Sind ... ... ... ... | 3,003,711 | 93,115 | 61,220 | 65·75 | 72·29 | 64·74 | 31,895 | 34·25 | 27·71 | 35·26 |
| Aden, Bushire, &c. ... ... | 44,079 | 1,367 | 253 | 18·51 | 37·24 | 30·87 | 1,114 | 81·49 | 62·76 | 69·13 |
| British Army ... ... ... | Not available | ..... | 74 | ... | ... | ... | ... | ... | ... | ... |
| Native Army ... ... ... | | ..... | 1,689 | ... | ... | ... | ... | ... | ... | ... |
| Total ... | 22,612,220 | 700,866 | 453,161 | 64·66 | 71·82 | 73·24 | 247,705 | 35·34 | 28·18 | 26·76 |

In comparing the two five-years' periods it is seen that in nearly all districts there has been a gradual improvement. In the Central District there is a fall in the second quinquennium, but the percentage in the previous one was very high and during the last two years of the second the rate was affected by both famine and plague. In the Presidency Circle, the rate is also much less for the second quinquennium and this is no doubt due to the effects of plague. A low birth-rate and a high death-rate in some parts have greatly affected the figures for the year under report, and the last quinquennium is also affected by the same abnormalities; comparisons drawn from the table this year are not, therefore, of any great value, but the Gujarát District, which has not suffered from the causes above mentioned, shows an improvement for the year and also a progressive improvement in the three periods.

Vaccination by Establishments.

**18.** The progress of vaccination by different establishments will be seen from the following table :—

| Establishments. | Persons primarily vaccinated. | | | | Persons re-vaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1897-98. | 1898-99. | Increase. | Decrease. | 1897-98. | 1898-99. | Increase. | Decrease. | 1897-98. | 1898-99. | Increase. | Decrease. |
| Municipal Vaccinators | 59,877 | 62,618 | 2,741 | ... | 9,521 | 7,815 | ... | 1,706 | 69,398 | 70,433 | .. | 1,035 |
| Cantonment do. ... | 1,434 | 1,970 | 536 | ... | 795 | 1,174 | 379 | ... | 2,229 | 3,144 | 915 | ... |
| Local Fund do. ... | 500,170 | 457,190 | ... | 42,980 | 38,418 | 29,461 | ... | 8,957 | 538,588 | 486,651 | ... | 51,937 |
| Native State do. ... | 114,420 | 98,547 | ... | 15,873 | 10,761 | 8,975 | ... | 1,786 | 125,181 | 107,522 | ... | 17,659 |
| Dispensary ... .. | 2,313 | 965 | ... | 1,328 | 655 | 617 | 262 | ... | 2,968 | 1,902 | ... | 1,066 |
| British Army ... ... | 241 | 159 | ... | 82 | 429 | 378 | ... | 51 | 670 | 537 | ... | 133 |
| Native Army ... ... | 3,384 | 2,327 | ... | 1,057 | 2,232 | 2,434 | 202 | ... | 5,616 | 4,761 | ... | 855 |
| Total .. | 681,839 | 623,796 | ... | 58,043 | 62,811 | 51,154 | ... | 11,657 | 744,650 | 674,950 | ... | 69,700 |

Results in vaccine operations by establishments.

**19.** The results in primary vaccination, re-vaccination, and total operations, as analysed by establishments, are as under :—

| Establishments. | Results in primary Vaccination. | | | | | Results in re-vaccination. | | | | | Results in total operations. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Successful. | Unsuccessful. | Unknown. | Total. | Excess of operations. | Successful. | Unsuccessful. | Unknown. | Total. | Excess of operations. | Successful. | Unsuccessful. | Unknown. | Total. | Excess of operations. |
| Municipal Vaccinators ... | 55,841 | 971 | 5,955 | 62,767 | 149 | 3,678 | 1,884 | 2,256 | 7,818 | 3 | 59,519 | 2,855 | 8,211 | 70,585 | 152 |
| Cantonment do. ... | 1,671 | 35 | 271 | 1,977 | 7 | 416 | 443 | 318 | 1,177 | 3 | 2,087 | 478 | 589 | 3,154 | 10 |
| Local Fund do. ... | 423,905 | 4,786 | 28,906 | 457,597 | 407 | 17,154 | 3,814 | 8,494 | 29,462 | 1 | 441,059 | 8,600 | 37,400 | 487,059 | 408 |
| Native States do. ... | 94,630 | 1,229 | 2,897 | 98,756 | 203 | 5,772 | 1,288 | 1,915 | 8,975 | ... | 100,402 | 2,517 | 4,812 | 107,731 | 209 |
| Dispensaries do. | 953 | 30 | 15 | 998 | 13 | 659 | 258 | ... | 917 | ... | 1,612 | 288 | 15 | 1,915 | 13 |
| British Army do. ... | 99 | 54 | 6 | 159 | ... | 174 | 204 | ... | 378 | ... | 273 | 258 | 6 | 537 | ... |
| Native Army do. ... | 2,045 | 279 | 4 | 2,328 | 1 | 1,290 | 1,138 | 6 | 2,434 | ... | 3,335 | 1,417 | 10 | 4,762 | 1 |
| Total ... 1898-99 ... | 579,144 | 7,384 | 38,054 | 624,582 | 786 | 29,143 | 9,029 | 12,989 | 51,161 | 7 | 608,287 | 16,413 | 51,043 | 675,743 | 793 |
| Total ... 1897-98 ... | 626,170 | 9,181 | 47,508 | 682,859 | 1,020 | 36,926 | 9,670 | 16,261 | 62,857 | 46 | 663,096 | 18,851 | 63,769 | 745,716 | 1,066 |

Percentage of success by establishments.

20. The percentages of success by establishments, in primary operations and in re-vaccination, are given below:—

| Establishments. | Kind of Operations. | |
|---|---|---|
| | Percentage of success in primary vaccination. | Percentage of success in re-vaccination. |
| Municipal ... ... ... | 89·18 | 47·06 |
| Cantonment ... ... ... | 84·82 | 35·43 |
| Local Fund ... ... ... | 92·72 | 58·23 |
| Native States ... ... ... | 96·03 | 64·31 |
| Dispensaries ... ... ... | 96·75 | 71·86 |
| British Army ... ... ... | 62·26 | 46·03 |
| Native Army ... ... ... | 87·88 | 52·98 |
| For the entire Presidency ... | 92·84 | 56·97 |

Work of establishments.

21. The work of the different establishments by districts is as follows.

Government Vaccinators.

22. There is a Government Vaccinator for each of the Cantonments of Rájkot and Deesa; their work is supervised by the Medical Officer, Káthiáwár State Agency, and is included in Appendix II. *Native States.*—There are, besides, three others for the Military Stations of Mhow, Neemuch and Nasirabad respectively. They are under the Staff Surgeons, are paid from "Military Funds," and their work is included under the head of "Native Army."

Work of Cantonment Vaccinators.

23. There is one Vaccinator for the Cantonment of Poona, and the Kirkee Cantonment shares one with the Poona Suburban Municipality. There is also a joint Municipal and Cantonment Vaccinator at Málegaon. Vaccination in the Deoláli Cantonment is performed under the Medical Officer in charge of the Station Hospital. In the Ahmedabad Cantonment vaccination is performed by the Medical Officer, Sadar Bazár Dispensary.

The following table shows, under the districts in which they are situated, the progress of vaccination in the above-named cantonments :—

| Registration Districts. | Persons primarily vaccinated. | | | | Persons re-vaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1897-98. | 1898-99. | Increase. | Decrease. | 1897-98. | 1898-99. | Increase. | Decrease. | 1897-98. | 1898-99. | Increase. | Decrease. |
| Western ... ... ... ... | 117 | 158 | 41 | ... | 1 | ... | ... | 1 | 118 | 158 | 40 | ... |
| Central ... ... ... ... ... | 1,285 | 1,769 | 484 | ... | 794 | 1,174 | 380 | ... | 2,079 | 2,943 | 864 | ... |
| Gujarát ... ... ... ... ... | 32 | 43 | 11 | ... | ... | ... | ... | ... | 32 | 43 | 11 | ... |
| Total ... | 1,434 | 1,970 | 536 | ... | 795 | 1,174 | 380 | 1 | 2,229 | 3,144 | 915 | ... |

Work of Municipal Vaccinators.

24. The following table gives, under the districts in which the Municipalities are situated, the work done by Municipal Vaccinators :—

| Number of Vaccinators. | Districts, &c. | Persons primarily vaccinated. | | | | Persons re-vaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1897-98. | 1898-99. | Increase. | Decrease. | 1897-98. | 1898-99. | Increase. | Decrease. | 1897-98. | 1898-99. | Increase. | Decrease. |
| 5 | W. R. D. .. .. .. | 4,824 | 4,145 | .. | 679 | 1,500 | 1,411 | .. | 91 | 6,324 | 5,556 | ... | 768 |
| 9 | Presidency .. .. .. | 12,851 | 13,094 | 243 | .. | 1,190 | 1,046 | .. | 144 | 14,041 | 14,140 | 99 | ... |
| 2 | C. R. District ... .. | 10,133 | 11,844 | 1,711 | .. | 2,514 | 2,521 | 7 | .. | 12,647 | 14,365 | 1,718 | ... |
| 8 | Southern do. .. .. | 8,683 | 6,308 | .. | 2,375 | 1,732 | 857 | .. | 875 | 10,415 | 7,165 | ... | 3,250 |
| 7 | Gujarát do. ... .. | 10,112 | 11,188 | 1,076 | .. | 371 | 295 | .. | 76 | 10,483 | 11,483 | 1,000 | ... |
| 8 | Sind do. .. ... | 9,943 | 10,532 | 589 | .. | 1,954 | 1,504 | .. | 450 | 11,897 | 12,036 | 139 | ... |
| 3 | Aden .. .. .. .. | 3,331 | 5,507 | 2,176 | ... | 260 | 181 | .. | 79 | 3,591 | 5,688 | 2,097 | ... |
| | Total .. | 59,877 | 62,618 | 2,741 | .. | 9,521 | 7,815 | .. | 1,706 | 69,398 | 70,433 | 1,035 | ... |

Work of Local Fund Vaccinators.

25. The following table shows the work of Local Fund Vaccinators in each of the five Registration Districts :—

| Number of Vaccinators. | Registration Districts. | Persons primarily vaccinated. | | | | Persons re-vaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1897-98. | 1898-99. | Increase. | Decrease. | 1897-98. | 1898-99. | Increase. | Decrease. | 1897-98. | 1898-99. | Increase. | Decrease. |
| 82 | Western ... ... ... | 97,575 | 96,832 | ... | 743 | 4,082 | 2,973 | ... | 1,109 | 1,01,657 | 99,805 | ... | 1,852 |
| 80 | Central ... ... ... | 1,39,986 | 1,27,379 | ... | 12,607 | 2,607 | 1,631 | ... | 976 | 1,42,593 | 1,29,010 | ... | 13,583 |
| 62 | Southern ... ... ... | 1,00,102 | 74,182 | ... | 25,920 | 15,581 | 12,041 | ... | 3,540 | 1,15,683 | 86,223 | ... | 29,460 |
| 48 | Gujarát ... ... ... | 86,010 | 84,604 | ... | 1,406 | 2,825 | 2,206 | ... | 619 | 88,835 | 86,810 | ... | 2,025 |
| 59 | Sind ... ... ... | 76,497 | 74,193 | ... | 2,304 | 13,323 | 10,610 | ... | 2,713 | 89,820 | 84,803 | ... | 5,017 |
| | Total ... | 5,00,170 | 4,57,190 | ... | 42,980 | 38,418 | 29,461 | ... | 8,957 | 5,38,588 | 4,86,651 | ... | 51,937 |

Work of Native State Vaccinators.

26. The subjoined table shows the work of those Native State Vaccinators in the five Registration Districts who are under the supervision of the Sanitary Department :—

| Number of Vaccinators. | Registration Districts. | Persons primarily vaccinated. | | | | Persons re-vaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1897-98. | 1898-99. | Increase. | Decrease. | 1897-98. | 1898-99. | Increase. | Decrease. | 1897-98. | 1898-99. | Increase. | Decrease. |
| 4 | Western ... ... ... | 4,893 | 4,035 | ... | 858 | 482 | 428 | ... | 54 | 5,375 | 4,463 | ... | 912 |
| 12 | Central ... ... ... | 15,431 | 13,592 | ... | 1,839 | 129 | 196 | 67 | ... | 15,560 | 13,788 | ... | 1,772 |
| 33 | Southern ... ... ... | 49,146 | 37,981 | ... | 11,165 | 9,490 | 7,874 | ... | 1,616 | 58,636 | 45,855 | ... | 12,781 |
| 24 | Gujarát ... ... ... | 39,419 | 37,863 | ... | 1,556 | 486 | 404 | ... | 82 | 39,905 | 38,267 | ... | 1,638 |
| 4 | Sind ... ... ... | 5,531 | 5,076 | ... | 455 | 174 | 73 | ... | 101 | 5,705 | 5,149 | ... | 556 |
| | Total ... | 1,14,420 | 98,547 | ... | 15,873 | 10,761 | 8,975 | ... | 1,786 | 1,25,181 | 1,07,522 | ... | 17,659 |

The supervision of vaccination in the Cambay State having been transferred to the State during the year, the figures for the year under report are omitted.

Work of Dispensary Officers.

27. Vaccination was carried on in 6 dispensaries during the year under report. The annexed table shows the progress of vaccination in dispensaries by districts :—

| Districts, &c. | Persons primarily vaccinated. | | | | Persons re-vaccinated. | | | | Total number of persons operated on. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1897-98. | 1898-99. | Increase. | Decrease. | 1897-98. | 1898-99. | Increase. | Decrease. | 1897-98. | 1898-99. | Increase. | Decrease. |
| Presidency Circle ... ... ... | 1 | 4 | 3 | ... | 258 | 291 | 33 | ... | 259 | 295 | 36 | ... |
| Gujarat Registration District ... | 156 | 154 | ... | 2 | 382 | 603 | 221 | ... | 538 | 757 | 219 | ... |
| Sind. do, do. ... | ... | 7 | 7 | ... | ... | 2 | 2 | ... | ... | 9 | 9 | ... |
| Aden ... {Bushire ... ... | 491 | 127 | ... | 364 | 15 | 9 | ... | 6 | 506 | 136 | ... | 370 |
| Aden ... {Muskat ... ... | 1,665 | 693 | ... | 972 | ... | 12 | 12 | ... | 1,665 | 705 | ... | 960 |
| Total ... ... | 2,313 | 985 | ... | 1,328 | 655 | 917 | 262 | ... | 2,968 | 1,902 | ... | 1,066 |

The vaccination work at Shaikh Othman in Aden is performed by a Municipal Vaccinator, and it is therefore included under that head.

Work performed in the Army (British and Native).

28. The following table shows details of vaccinations performed in the British and Native Army :—

| The Army. | Primary Vaccinations. | | | | | | | | | | | | | | | | | Re-vaccinations. | | | | | | | Percentages of successful cases, | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sex. | | Caste. | | | | | Age. | | | Results. | | | | | | | Sex. | | Result. | | | | | | |
| | | | | | | | | | | | Successful. | | | | | | | | | | | | | | | |
| | Males. | Females. | Christians. | Hindus. | Musalmáns. | Pársis. | Other Castes. | Under 1 year. | Above 1 and under 6 years. | Above 6 years. | Under 1 year. | Above 1 and under 6 years. | Total of all ages. | Unsuccessful and doubtful. | Unknown. | Total. | Excess of operations over persons. | Males. | Females. | Successful. | Unsuccessful and doubtful. | Unknown. | Total. | Excess of operations over persons. | In Primary Vaccinations. | In re-vaccinations. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| British Army ... | 87 | 72 | 111 | 31 | 4 | 1 | 12 | 119 | 30 | 10 | 74 | 18 | 99 | 54 | 6 | 159 | ... | 371 | 7 | 174 | 204 | .. | 378 | ... | 62·26 | 46·03 |
| Native Army ... | 1,429 | 898 | 45 | 1,455 | 754 | 5 | 68 | 1,821 | 211 | 295 | 1,689 | 182 | 2,044 | 279 | 4 | 2,328 | 1 | 2,329 | 105 | 1,290 | 1,138 | 6 | 2,434 | ... | 87·88 | 53·00 |
| Total ... | 1,516 | 970 | 156 | 1,486 | 758 | 6 | 80 | 1,940 | 241 | 305 | 1,763 | 200 | 2,144 | 333 | 10 | 2,487 | 1 | 2,700 | 112 | 1,464 | 1,342 | 6 | 2,812 | ... | 86·24 | 52·06 |

Average number of operations for each kind of establishment.

29. The average number of persons operated on by different establishments is specified below for the years 1897-98 and 1898-99 :—

| No. | Establishments. | Average number of persons operated on. | |
|---|---|---|---|
| | | 1897-98. | 1898-99. |
| 1 | Municipal Vaccinators ... ... | 1,445 | 1,467 |
| 2 | Cantonment do. ... ... | 1,114 | 1,572 |
| 3 | Local Fund do. ... ... | 1,754 | 1,585 |
| 4 | Native State do. ... ... | 1,604 | 1,396 |
| | Total for the entire Presidency ... | 1,690 | 1,539 |

Average number of operations performed by each Vaccinator.

30. The subjoined table gives the average number of operations, by districts, &c., performed by each Vaccinator :—

| No. | Registration Districts, &c. | Average number of persons vaccinated by each Vaccinator. | |
|---|---|---|---|
| | | 1897-98. | 1898-99. |
| 1 | Western ... ... ... | 1,350 | 1,309 |
| 2 | Presidency Circle ... ... | 1,755 | 1,767 |
| 3 | Central ... ... ... | 1,801 | 1,668 |
| 4 | Southern ... ... ... | 1,793 | 1,352 |
| 5 | Gujarát ... ... ... | 1,857 | 1,846 |
| 6 | Sind ... ... ... | 1,628 | 1,545 |
| 7 | Aden ... ... ... | 1,197 | 1,896 |
| | Average for the whole Presidency... | 1,690 | 1,539 |

English lymph.

31. Consignments of English lpmph were received in May 1898 and January 1899. Forty-five tubes of humanized and 20 of bovine lymph were received on each occasion.

The Civil Surgeon, Aden, states that "the lymph obtained from England, quarterly, failed in almost every instance owing to the neglect of the authorities at home to mix it with glycerine or lanoline. The local supply was good and abundant, and in every instance the requisitions from the Military and from Dispensaries on the Somáli Coast and Perim were immediately complied with."

The table below shows the results of the lymph distributed in the Presidency :—

| Supply received in | Registration Districts, &c. | Number of | | | | Remarks. |
|---|---|---|---|---|---|---|
| | | Tubes received and tested. | Children and calves operated on. | Insertions. | Resulting vesicles. | |
| May 1898 and January 1899. | Western ... ... ... | 18 H | 17 | 79 | 20 | |
| | | 6 C | 2 | 10 | 8 | |
| | Presidency Circle ... ... | 6 H | 2 | 31 | 3 | |
| | | 18 C | 8 | 106 | 29 | |
| | Central ... ... ... | 18 H | 18 | 80 | 55 | |
| | | 6 C | 5 | 30 | 21 | |
| | Southern ... ... | 18 H | 13 | 78 | 71 | |
| | | 6 C | 2 | 15 | 8 | |
| | Gujarát ... ... ... | 18 | 12 | 57 | 18 | |
| | Sind ... ... ... | 12 H | 10 | 50 | 10 | |
| | | 4 C | 1 | ... | ... | |

H = Human lymph.
C = Calf do.

Lymph supply.

32. Lymph was supplied by the Deputy Sanitary Commissioner, Western Registration District, to the Civil Administrative Medical officer for Central India, Indore.

The Deputy Sanitary Commissioner, Central Registration District, supplied lymph to the Civil Surgeon of Lucknow, the Superintendent of Vaccination,

Allahabad, the Assistant Superintendent of Vaccination, Almora, the Senior Medical Officer, H. C., Jalna, the Medical Officers, Station Hospitals, Sirur and Purandhar, the Medical Officer, 2nd Bombay Grenadiers, and to the Agent Gold Mines, Linqsugur.

The Deputy Sanitary Commissioner, Gujarát Registration District, supplied lymph to the Assistant Surgeon, Sádra Dispensary, the Medical Officer in charge Ahmedabad Camp, and the Medical Officer in-charge Ahmedabad Central Prison.

In the Presidency Circle there were 563 applications for lymph against 538 in 1897-98. The total number of tubes issued was 1,992 against 1,541 in the preceding year. Of these, 942 were supplied free of charge to Civil Surgeons, to the Deputy Sanitary Commissioners, to the Medical Officers in charge of Army Hospitals in the mofussil, and to Medical Officers of Her Majesty's Troopships in the harbour. The remaining 1,050 tubes were sold to private parties in the City and in the mofussil. Inoculated calves were supplied as under :—1 to the Bándra Municipality, 1 to the Kurla Municipality, and 1 for Goa to the Vice-Consul for Portugal.

Animal Vaccination in the Western Registration District.

33. In the Western Registration District animal lymph is used in the towns of Dhulia and Chopda in the Khándesh Collectorate, and in Kurla and Bándra in Thána Collectorate. The number of persons vaccinated with animal lymph in these towns during the year was 652 primary vaccinations and 64 re-vaccinations, the successful cases under each head being 562 and 28, respectively.

Animal Vaccination in Bombay City.

34. In the City of Bombay animal lymph has been in use for many years past. Since better accommodation for the calves has been provided, their health has been better and there has not been the same trouble on account of sickness : unfortunately this accommodation is only temporary. 362 calves were inoculated and the insertion success was 98·6.

Animal vaccination in the Central Registration District.

35. In the Central Registration District the Deputy Sanitary Commissioner states that the practice of using animal lymph was carried on continuously during the year with a considerable amount of success. It was carried on throughout the year in Poona City, in the Cantonments of Poona and Kirkee, and in the towns of Ahmednagar, Sholápur and Sátára. Of the minor Municipalities, Junnar, Alandi, Jejurí, Sáswad, Sirur, Talegaon Dabháda, Lonávla, Barámati, Sangamner, Vámbori, Bhingar and Chiplun have provided sums for a calf every six months; the Bársi and Pandharpur Municipalities have provided a calf every four months.

The practice has been introduced in the chief towns of the Native States of Bhor, Aundh and Akalkot.

A few villages provide funds to furnish a calf every six months, and some once a year; many other villages lend a calf for vaccination purposes.

Animal vaccination was carried on in the following tálukas and Native States :—Ráhuri, Shrigonda, Sangamner and Nagar of the Ahmednagar Collectorate; Sholápur, Pandharpur, Bársi, Mádha and Akalkot State in the Sholápur Collectorate; Purandhar, Haveli, Mával, Khed, Junnar, Bhimthadi, Sirur and the Native State of Bhor in the Poona Collectorate; Sátára, Koregaon, Khatáv, Jávli, Wái, Mán, and the Native States of Phaltan and Aundh in the Sátára Collectorate; and Chiplun in the Ratnágiri Collectorate. In all 17,045 children were vaccinated in 539 villages of the abovementioned tálukas and Native States. Animal vaccination was carried on throughout the year in the four principal municipalities and in two cantonments, and in these 13,405 children were vaccinated. The total number of persons vaccinated with calf lymph during the year was 30,450 compared with 24,806 in 1897-98. In rural districts there were 17,045 operations compared with 14,671 in the previous year, and in the four principal towns and the two cantonments 13,405 compared with 10,135 in 1897-98.

The following statement shows the number and results of vaccinations done with human and animal lymph during the year 1898-99 in this district :—

| Collectorates, &c. | Number of Vaccinations. | | Number of Successful Cases. | | Total. | |
|---|---|---|---|---|---|---|
| | Human. | Animal. | Human. | Animal. | Number of Vaccinations. | Successful Cases. |
| Ahmednagar ... ... | 27,146 | 4,466 | 24,846 | 3,839 | 31,612 | 28,685 |
| Poona ... ... .. | 13,898 | 18,303 | 12,080 | 15,064 | 32,201 | 27,144 |
| Sholápur ... ... | 20,157 | 3,242 | 18,143 | 2,875 | 23,399 | 21,018 |
| Sátára ... ... ... | 28,294 | 2,093 | 26,828 | 1,771 | 30,387 | 28,599 |
| Ratnágiri ... ... | 28,491 | 286 | 27,065 | 245 | 28,777 | 27,310 |
| Native States ... ... | 11,773 | 2,060 | 10,885 | 1,696 | 13,833 | 12,581 |
| Total ... | 129,759 | 30,450 | 119,847 | 25,490 | 160,209 | 145,337 |

Animal vaccination in the Southern Registration District.

36. In the Southern Registration District animal vaccination was continued in Belgaum, Dhárwár, Hubli and Gadag Towns and in the States of Kolhápur and Sangli.

Animal vaccination in the Gujarát Registration District.

37. Animal vaccination was carried on in Ahmedabad City.

Animal vaccination in Sind Registration District.

38. In the Sind Registration District calf lymph was supplied from Karáchi to the District Vaccinators when necessary, and to several Medical Officers on their indents. Animal vaccination was carried on in Karáchi Town throughout the year.

Calves inoculated.

39. The following table shows the number of calves inoculated in the principal towns :—

| Months. | Poona City. | | | Poona Camp. | | | Kirkee Camp. | | | Ahmednagar. | | | Shola'pur. | | | Sa'ta'ra. | | | Belgaum. | | | Dha'rwa'r. | | | Hubli. | | | Gadag-Bettigeri. | | | Kolha'pur State. | | | Sa'ngli State. | | | Kara'chi. | | | Total. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Calves inoculated. | Successful. | Unsuccessful. | Calves inoculated. | Successful. | Unsuccessful. | Calves inoculated. | Successful. | Unsuccessful. | Calves inoculated. | Successful. | Unsuccessful. | Calves inoculated. | Successful. | Unsuccessful. | Calves inoculated. | Successful. | Unsuccessful. | Calves inoculated. | Successful. | Unsuccessful. | Calves inoculated. | Successful. | Unsuccessful. | Calves inoculated. | Successful. | Unsuccessful. | Calves inoculated. | Successful. | Unsuccessful. | Calves inoculated. | Successful. | Unsuccessful. | Calves inoculated. | Successful. | Unsuccessful. | Calves inoculated. | Successful. | Unsuccessful. | Calves inoculated. | Successful. | Unsuccessful. |
| April 1898 .. | 5 | 5 | .. | 7 | 7 | .. | 2 | 2 | .. | 7 | 7 | .. | 8 | 8 | .. | 7 | 7 | .. | 6 | 6 | .. | 9 | 9 | .. | 8 | 8 | .. | .. | .. | .. | 12 | 12 | .. | 2 | 2 | .. | 15 | 15 | .. | 88 | 88 | .. |
| May ,, .. | 7 | 7 | .. | 8 | 8 | .. | 2 | 2 | .. | 7 | 7 | .. | 7 | 7 | .. | 7 | 7 | .. | 6 | 6 | .. | 8 | 8 | .. | 7 | 6 | 1 | .. | .. | .. | 11 | 11 | .. | 4 | 4 | .. | 15 | 15 | .. | 89 | 88 | 1 |
| June ,, .. | 9 | 9 | .. | 7 | 7 | .. | 2 | 2 | .. | 7 | 7 | .. | 7 | 7 | .. | 6 | 6 | .. | 7 | 7 | .. | 7 | 7 | .. | 7 | 7 | .. | .. | .. | .. | 12 | 12 | .. | 8 | 8 | .. | 15 | 15 | .. | 99 | 99 | .. |
| July ,, .. | 8 | 8 | .. | 8 | 8 | .. | 3 | 3 | .. | 8 | 8 | .. | 8 | 8 | .. | 7 | 7 | .. | 6 | 6 | .. | 8 | 8 | .. | 8 | 8 | .. | 1 | 1 | .. | 13 | 13 | .. | 5 | 5 | .. | 17 | 17 | .. | 108 | 108 | .. |
| August ,, .. | 8 | 8 | .. | 8 | 8 | .. | 2 | 2 | .. | 7 | 7 | .. | 8 | 8 | .. | 7 | 7 | .. | 6 | 6 | .. | 7 | 7 | .. | 6 | 6 | .. | 7 | 7 | .. | 21 | 21 | .. | .. | .. | .. | 15 | 15 | .. | 113 | 113 | .. |
| September ,, .. | 7 | 7 | .. | 7 | 7 | .. | 2 | 2 | .. | 8 | 8 | .. | 7 | 7 | .. | 7 | 7 | .. | 6 | 6 | .. | 7 | 7 | .. | 6 | 5 | 1 | 1 | 1 | .. | 16 | 16 | .. | .. | .. | .. | 15 | 15 | .. | 89 | 88 | 1 |
| October ,, .. | 8 | 8 | .. | 9 | 9 | .. | 4 | 4 | .. | 7 | 7 | .. | 8 | 8 | .. | 7 | 7 | .. | 7 | 7 | .. | .. | .. | .. | 8 | 8 | .. | .. | .. | .. | 25 | 25 | .. | .. | .. | .. | 16 | 16 | .. | 99 | 99 | .. |
| November ,, .. | 9 | 9 | .. | 7 | 7 | .. | 2 | 2 | .. | 7 | 7 | .. | 7 | 7 | .. | 6 | 6 | .. | 6 | 6 | .. | 4 | 4 | .. | 7 | 7 | .. | .. | .. | .. | 22 | 22 | .. | .. | .. | .. | 15 | 15 | .. | 92 | 92 | .. |
| December ,, .. | 8 | 8 | .. | 8 | 8 | .. | 4 | 4 | .. | 7 | 7 | .. | 8 | 8 | .. | 7 | 7 | .. | 6 | 6 | .. | 4 | 4 | .. | 7 | 7 | .. | .. | .. | .. | 15 | 15 | .. | .. | .. | .. | 15 | 15 | .. | 91 | 91 | .. |
| January 1899 .. | 10 | 10 | .. | 8 | 8 | .. | 3 | 3 | .. | 8 | 8 | .. | 8 | 8 | .. | 7 | 7 | .. | 6 | 6 | .. | .. | .. | .. | 7 | 7 | .. | .. | .. | .. | 7 | 7 | .. | .. | .. | .. | 16 | 16 | .. | 80 | 80 | .. |
| February ,, .. | 9 | 9 | .. | 7 | 7 | .. | 2 | 2 | .. | 7 | 7 | .. | 7 | 7 | .. | 6 | 6 | .. | 6 | 6 | .. | .. | .. | .. | 5 | 3 | 2 | .. | .. | .. | 6 | 6 | .. | .. | .. | .. | 14 | 14 | .. | 69 | 67 | 2 |
| March ,, .. | 10 | 10 | .. | 8 | 8 | .. | 2 | 2 | .. | 8 | 8 | .. | 8 | 8 | .. | 7 | 7 | .. | 6 | 6 | .. | .. | .. | .. | 6 | 6 | .. | .. | .. | .. | 7 | 7 | .. | .. | .. | .. | 12 | 12 | .. | 74 | 74 | .. |
| Total .. | 98 | 98 | .. | 92 | 92 | .. | 30 | 30 | .. | 88 | 88 | .. | 91 | 91 | .. | 81 | 81 | .. | 74 | 74 | .. | 54 | 54 | .. | 82 | 78 | 4 | 9 | 9 | .. | 167 | 167 | .. | 19 | 19 | .. | 180 | 180 | .. | 1,091 | 1,087 | 4 |

Expenditure.

40. The total expenditure on account of vaccination is shown in the following table and is compared with the preceding year :—

| Establishments. | 1897-98. | 1898-99. | Increase. | Decrease. |
|---|---|---|---|---|
| | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. |
| Provincial ... ... | 99,009 0 8 | 83,477 9 6 | ..... | 15,531 7 2 |
| Municipal and Cantonment. | 39,426 3 8 | 37,794 14 6 | ..... | 1,631 5 2 |
| Local Fund ... ... | 1,08,883 1 6 | 1,03,750 9 1 | ..... | 5,132 8 5 |
| Native States ... ... | 31,378 13 1 | 30,785 13 4 | ..... | 592 15 9 |
| Total ... | 2,78,697 2 11 | 2,55,808 14 5 | ..... | 22,888 4 6 |

There was a decrease in expenditure under all establishments. It was due to the absence of Deputy Sanitary Commissioners on furlough and deputation; to the discontinuance of grain compensation to Vaccinators and peons, and of horse allowance to those Vaccinators who worked in famine camps; to the stoppage of animal vaccination in places on account of plague and to the employment of Inspectors and Vaccinators on plague duty. The successful cases, excluding Dispensaries and the Army, amounted to 603,067, and the average cost for each successful case is annas 6 and pies 9, against annas 6 and pies 10 in the previous year.

Work of Deputy Sanitary Commissioners.

41. The inspectorial work performed by the supervising officers is shown in the table given below :—

| Registration Districts. | Deputy Sanitary Commissioners. | Number of encampments. | Number of travelling days. | Distance travelled in miles | Number of villages visited. | Number of vaccinated children inspected. |
|---|---|---|---|---|---|---|
| Western ... ... | Major A. V. Anderson ... | 12 | 62 | 2,096 | 62 | 2,003 |
| Central ... ... | Lieut.-Col. A. W. F. Street. | 27 | 164 | 3,977 | 82 | 2,979 |
| Southern ... ... | Lieut.-Col. C. T. Peters *"Acting."* | 2 | 10 | 155 | 2 | 16 |
| Gujarát ... ... | Major T. E. Dyson ... / Lieut.-Col. K. S. Nariman *"Acting."* ... | 8 | 92 | 1,164 | 17 | 1,140 |
| Sind ... ... | Captain H. C. L. Arnim ... | 15 | 71 | 3,588 | 48 | 1,310 |
| | Total ... | 64 | 399 | 10,980 | 211 | 7,448 |

Inspection work was almost at a standstill owing to the absence of Deputy Sanitary Commissioners on deputation and leave and to their posts not being filled by full-time men, and to the few Deputies who held charge of their own appointments during the year being, as a rule, so fully occupied by some special plague duty that they were unable to travel on tour. Vaccination has suffered both in quantity and quality owing to the absence of inspection and supervision by the Deputy Sanitary Commissioners, who are the mainstay of the Department, and without whom efficiency cannot be maintained.

Inspection from vaccination registers.

42. The following table shows the work tested by the supervising officers through calling names from the registers :—

| Registration Districts. | Work tested by calling names from Registers. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of vaccinated children inspected. | Present during inspection. | | | Absent during inspection. | | Number of persons whom the vaccinator has returned as vaccinated. | | | | |
| | | Successful. | | Unsuccessful. | Absence accounted for. | Absence unaccounted for. | Successful. | Unsuccessful. | Unknown. | Total. | Excess of operations over persons. |
| | | Good. | Bad. | | | | | | | | |
| Western ... | 1,923 | 1,728 | 132 | 63 | 905 | ... | 2,600 | 44 | 184 | 2,828 | ... |
| Central ... | 2,979 | 2,746 | 179 | 54 | 2,775 | ... | 4,916 | 48 | 790 | 5,754 | ... |
| Southern ... | 16 | 16 | ... | ... | 20 | ... | 36 | ... | ... | 36 | ... |
| Gujarát ... | 1,140 | 1,054 | 79 | 7 | 387 | ... | 1,403 | 19 | 106 | 1,528 | 1 |
| Sind ... | 1,310 | 1,029 | 229 | 52 | 697 | ... | 1,700 | 66 | 242 | 2,008 | 1 |
| Total ... | 7,368 | 6,573 | 619 | 176 | 4,784 | ... | 10,655 | 177 | 1,322 | 12,154 | 2 |

Excluding the 'absent,' the Inspecting Officer returned 97·6 and the Vaccinator 98·3 per mille as successful. Out of 7,192 successful cases inspected, 91·3 per cent. had good and sufficient cicatrices.

Inspection work of Deputy Sanitary Commissioners.

43. The following table shows the amount of inspection work done during the working season of the year 1898-99 and the time spent in inspection in each Collectorate by the Deputy Sanitary Commissioners :—

| Registration Districts. | Collectorate. | Number of Tálukas and Town Circles. | Number of Tálukas and Towns inspected. | Number of Tálukas and towns remained to be inspected. | Number of miles travelled. | Number of days spent in inspection. | Number of persons operated on by Vaccinators. | Number of vaccinated persons inspected. | Percentage of inspections to total number vaccinated. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| Western. | Khándesh ... ... | 25 | 2 | 23 | 36 | 2 | 42,269 | 42 | 0·10 | There was practically no inspection, as the Deputy Sanitary Commissioners were either absent on deputation or leave, or were fully occupied by plague duty. |
| | Násik ... ... | 16 | 7 | 9 | 1,948 | 60 | 22,635 | 1,961 | 8·66 | |
| | Thána ... ... | 11 | 1 | 10 | 112 | 1 | 22,528 | ... | ... | |
| | Kolába ... ... | 11 | ... | 11 | ... | ... | 18,002 | .. | ... | |
| | Native States ... | 4 | ... | 4 | ... | ... | 4,463 | ... | ... | |
| Central. | Ahmednagar ... | 14 | 3 | 11 | 201 | 6 | 31,612 | 221 | ·70 | |
| | Poona ... ... | 12 | 9 | 3 | 2,896 | 139 | 32,167 | 2,302 | 7·16 | |
| | Sholápur ... ... | 10 | 7 | 3 | 605 | 8 | 23,395 | 103 | ·56 | |
| | Sátára ... ... | 15 | 4 | 11 | 275 | 11 | 30,373 | 326 | 1·07 | |
| | Ratnágiri ... ... | 10 | ... | 10 | ... | ... | 28,771 | ... | ... | |
| | Native States ... | 4 | ... | 4 | ... | ... | 8,675 | ... | ... | |
| Southern. | Belgaum ... ... | 11 | 2 | 9 | 155 | 10 | 28,310 | 16 | ·56 | |
| | Dhárwár ... ... | 17 | ... | 17 | ... | ... | 23,598 | ... | ... | |
| | Bijápur ... ... | 10 | ... | 10 | ... | ... | 25,854 | ... | ... | |
| | Kánara ... ... | 13 | ... | 13 | ... | ... | 15,626 | ... | ... | |
| | Native States ... | 37 | .. | 37 | ... | ... | 45,855 | ... | ... | |
| Gujarát. | Surat ... ... | 10 | 6 | 4 | 712 | 61 | 20,619 | 694 | 3·37 | |
| | Broach ... ... | 8 | ... | 8 | ... | ... | 10,510 | .. | ... | |
| | Kaira ... ... | 11 | ... | 11 | 23 | 1 | 25,962 | ... | ... | |
| | Panch Mahális ... | 7 | ... | 7 | ... | ... | 10,618 | ... | ... | |
| | Ahmedabad... ... | 12 | 4 | 8 | 419 | 29 | 29,883 | 446 | 1·49 | |
| | Native States ... | 21 | 1 | 20 | 10 | 1 | 39,061 | ... | ... | |
| Sind. | Karáchi ... ... | 16 | 5 | 11 | 2,203 | 38 | 21,548 | 264 | 1·23 | |
| | Hyderabad ... ... | 13 | 1 | 12 | 8 | ... | 21,602 | 58 | ·27 | |
| | Thar and Párkar ... | 9 | ... | 9 | ... | ... | 11,295 | ... | ... | |
| | Shikárpur ... ... | 18 | 5 | 13 | 1,131 | 32 | 35,386 | 984 | 2·78 | |
| | Upper Sind Frontier | 5 | 1 | 4 | 246 | 1 | 7,008 | 4 | ·06 | |
| | Natie States ... | 4 | ... | 4 | ... | ... | 5,149 | ... | ... | |

Work of Inspectors and Assistant Superintendents of Vaccination.

44. The work of Inspectors and Assistant Superintendents of Vaccination is detailed, by districts, in the subjoined table :—

| Registration Districts. | Number of encampments. | Number of travelling days. | Distance travelled in miles. | Number of villages visited. | Work tested by calling names from Registers. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Number of vaccinated children inspected. | Present during inspection. Successful. Good. | Present during inspection. Successful. Bad. | Present during inspection. Unsuccessful. | Absent during inspection. Absence accounted for. | Absent during inspection. Absence unaccounted for. | Number of persons whom the Vaccinator has returned as vaccinated. Successful. | Unsuccessful and doubtful. | Unknown. | Total. | Excess of operations over persons. |
| Western ... ... | 1,031 | 1,766 | 14,181 | 2,623 | 60,881 | 46,491 | 11,191 | 3,199 | 22,045 | 67 | 76,812 | 1,424 | 4,815 | 83,051 | 58 |
| Central ... ... | 599 | 1,574 | 12,927 | 1,592 | 55,906 | 50,506 | 4,486 | 914 | 27,237 | ... | 75,328 | 644 | 7,172 | 83,144 | 1 |
| Southern ... ... | 838 | 1,841 | 14,652 | 1,698 | 43,105 | 36,406 | 5,579 | 1,120 | 19,090 | ... | 57,371 | 828 | 4,037 | 62,236 | 41 |
| Gujarát ... ... | 474 | 1,037 | 6,916 | 1,683 | 45,785 | 40,317 | 4,923 | 546 | 17,423 | ... | 60,334 | 937 | 2,038 | 63,309 | 101 |
| Sind ... ... | 884 | 1,497 | 13,767 | 4,713 | 48,460 | 28,485 | 18,104 | 1,871 | 24,748 | ... | 68,676 | 2,134 | 7,478 | 78,288 | 80 |
| Total ... | 3,826 | 7,715 | 62,443 | 12,309 | 254,137 | 202,205 | 44,282 | 7,650 | 110,543 | 67 | 338,521 | 5,967 | 25,540 | 365,023 | 231 |

Inspections in the Southern District were much below the average; this was due to the presence of plague and to the absence of inspectors and vaccinators on plague duty; work in the other districts also suffered by the same causes.

Conduct of members in the Department.

45. The conduct of the inspecting officers was reported to be satisfactory. The conduct of the Vaccinators, clerks and peons, with few exceptions, was generally good.

Inoculation.

46. No inoculation was reported to have been practised anywhere in the Presidency, except in the Nára Táluka of the Khairpur Native State, and this was inquired into, with the result that the people were warned, and on any repetition of the offence will be dealt with under the Indian Penal Code.

Ill effects by Vaccination.

47. No instances were reported of any disease having been communicated through vaccination.

Villages visited and not visited by Vaccinators.

48. The following statement shows the number of villages visited, as well as those left unvisited, by the Vaccinators of the Department in each District and Native State during the year under report:—

| Registration Districts. | Villages in British Territory | | Villages in Native States | | Total Villages | |
|---|---|---|---|---|---|---|
| | Visited. | Not visited. | Visited. | Not visited. | Visited. | Not visited. |
| Western ... ... | 6,694 | 631 | 460 | 366 | 7,154 | 997 |
| Central ... ... ... | 5,797 | 68 | 123 | 46 | 5,920 | 114 |
| Southern ... ... | 5,334 | 542 | 1,903 | 128 | 7,237 | 670 |
| Gujárat ... ... ... | 3,338 | 21 | 3,534 | 637 | 6,872 | 658 |
| Sind ... ... ... | 17,010 | 3,838 | 973 | 32 | 17,983 | 3,870 |
| Total ... | 38,173 | 5,100 | 6,993 | 1,209 | 45,166 | 6,309 |

Notwithstanding all the adverse circumstances during the year, there is an improvement in the number of villages visited in British territory, and only a slight decrease in the number of those in Native States.

Small-pox by Collectorates.

49. The table given below shows for each district the deaths from small-pox for the year under report, the number of persons successfully operated on, and also the percentages of deaths to total deaths:—

*Deaths from Small-pox.*

| Registration Districts, &c. | | Collectorate. | Total Deaths. | Ages. Percentage to total Deaths 1898-99. 0-1 | 1-12 | 12 years and above. | Number of persons successfully operated on. |
|---|---|---|---|---|---|---|---|
| Western ... | 1 | Khándesh... ... | 230 | 24·78 | 68·70 | 6·52 | 38,215 |
| | 2 | Násik ... ... | 7 | 32·47 | 51·95 | 15·58 | 19,878 |
| | 3 | Thána ... ... | 133 | 30·82 | 63·16 | 6·02 | 20,288 |
| | 4 | Kolába ... ... | 19 | 15·79 | 68·42 | 15·79 | 16,954 |
| | | Total ... | 459 | 27·45 | 64·27 | 8·28 | 95,335 |
| Presidency Circle | 5 | Bombay City ... | 83 | 23·53 | 52·94 | 17·65 | 12,637 |
| Central... ... | 6 | Ahmednagar ... | 54 | 37·04 | 51·85 | 11·11 | 28,685 |
| | 7 | Poona ... ... | 48 | 29·17 | 20·83 | 50·00 | 27,144 |
| | 8 | Sholápur ... ... | 72 | 59·72 | 36·11 | 4·17 | 22,682 |
| | 9 | Sátára ... ... | 25 | 48·0 | 24·0 | 28·0 | 34,594 |
| | 10 | Ratnágiri... ... | ... | ... | ... | ... | 32,232 |
| | | Total ... | 199 | 44·72 | 35·18 | 20·10 | 145,337 |
| Southern ... | 11 | Belgaum ... ... | 22 | 18·18 | 45·45 | 36·36 | 25,120 |
| | 12 | Dhárwár ... ... | 114 | 18·42 | 53·51 | 28·07 | 19,179 |
| | 13 | Bijápur ... ... | 158 | 19·62 | 49·37 | 31·01 | 23,587 |
| | 14 | Kánara ... ... | 100 | 8· | 36· | 56· | 12,532 |
| | | Total ... | 394 | 16·24 | 46·95 | 36·80 | 80,418 |
| Gujarát ... | 15 | Surat ... ... | ... | ... | ... | ... | 20,012 |
| | 16 | Broach ... ... | ... | ... | ... | ... | 10,071 |
| | 17 | Kaira ... ... | ... | ... | ... | ... | 25,259 |
| | 18 | Panch Maháls ... | 1 | 100· | ... | ... | 10,381 |
| | 19 | Ahmedabad ... | 1 | ... | ... | 100·00 | 27,860 |
| | | Total ... | 2 | 50·00 | ... | 50·00 | 93,583 |
| Sind ... ... | 20 | Karáchi ... ... | 10 | 10·0 | 20·0 | 70·0 | 18,408 |
| | 21 | Hyderabad ... | ... | ... | ... | ... | 19,315 |
| | 22 | Thar and Párkar ... | 16 | 43·75 | 31·25 | 25·0 | 9,886 |
| | 23 | Shikárpur... ... | ... | ... | ... | ... | 30,920 |
| | 24 | Upper Sind Frontier ... ... | 7 | ... | ... | ... | 5,674 |
| | | Total ... | 33 | 24·24 | 21·21 | 54·55 | 84,203 |

The deaths from small-pox (1,170) during the year were very low. The Western District was the one most affected, after it came the Southern and Central Districts, Sind was very slightly affected, and the Gujarát District gave only 2 deaths. These figures and those for the previous year, which were also low, may be considered very satisfactory and they testify to the exceedingly good vaccination work which now for some years has been done in this Presidency; but at the same time it must not be thought that we have by any means reached perfection and can relax our efforts, on the contrary there is still a great deal to be done and we are by no means safe from the danger of a widespread and fatal epidemic should the disease appear in severe epidemic form. It is, therefore, to be hoped that the present year will be favourable and that it may be possible to repair the damage sustained through the adverse circumstances of the last two

years, and to proceed with the progress which was being made before the appearance of famine and plague.

As regards Collectorates, Khándesh was the one most affected and after it Bijápur, Thána, Dhárwár and Kánara gave the largest number of deaths; all the other Collectorates had less than 100 deaths each, Ahmedabad and Panch Maháls had only 1 death each, and the Collectorates of Ratnágiri, Surat, Broach Kaira, Hyderabad and Shikárpur had none at all.

The deaths from small-pox are shown in the table under three age periods, and as percentages to total deaths. Compared with previous years, the tendency is found to be for the deaths under 1 year to decrease, for those above 1 and below 12 to remain about the same, and for those over 12 to increase. As far as primary vaccination is concerned, this is a fairly satisfactory result; but would be more so if the deaths in the first two age periods were lower: however, it is difficult to effect this owing to the absence of compulsory vaccination in towns and to the very extensive areas in charge of rural Vaccinators.

The percentages for the Central District do not show a very good result, but this is exceptional, as the record of this district is usually one of the best. The numbers on which, this year, the calculations are made are, however, too small to give results of much value.

50. Small-pox was very prevalent in Southern Arabia during the year, and as a consequence Aden suffered to a certain extent; but the disease could not be considered epidemic, and most of the cases were contracted outside or were found amongst the homeless vagrants; in only a few instances was the disease discovered amongst the resident population.

Vaccination was pushed as much as possible and 1,106 more persons were operated on than in the preceding year.

Vaccination at last seems to be gaining ground among the Arabs in the interior of Arabia. Many of them visiting Aden begged to be operated on, and gave as their reason that those who on former visits to Aden had been vaccinated, were able to go about among the infected with impunity.

At the urgent request of the Sultán of Lahej a Vaccinator was sent there, and operated on 381 persons.

At Shaikh Othman, which has an estimated population of 7,000 of whom probably 60 or 70 per cent. are protected, there were during the year under report 160 cases of small-pox which are detailed in the following table:—

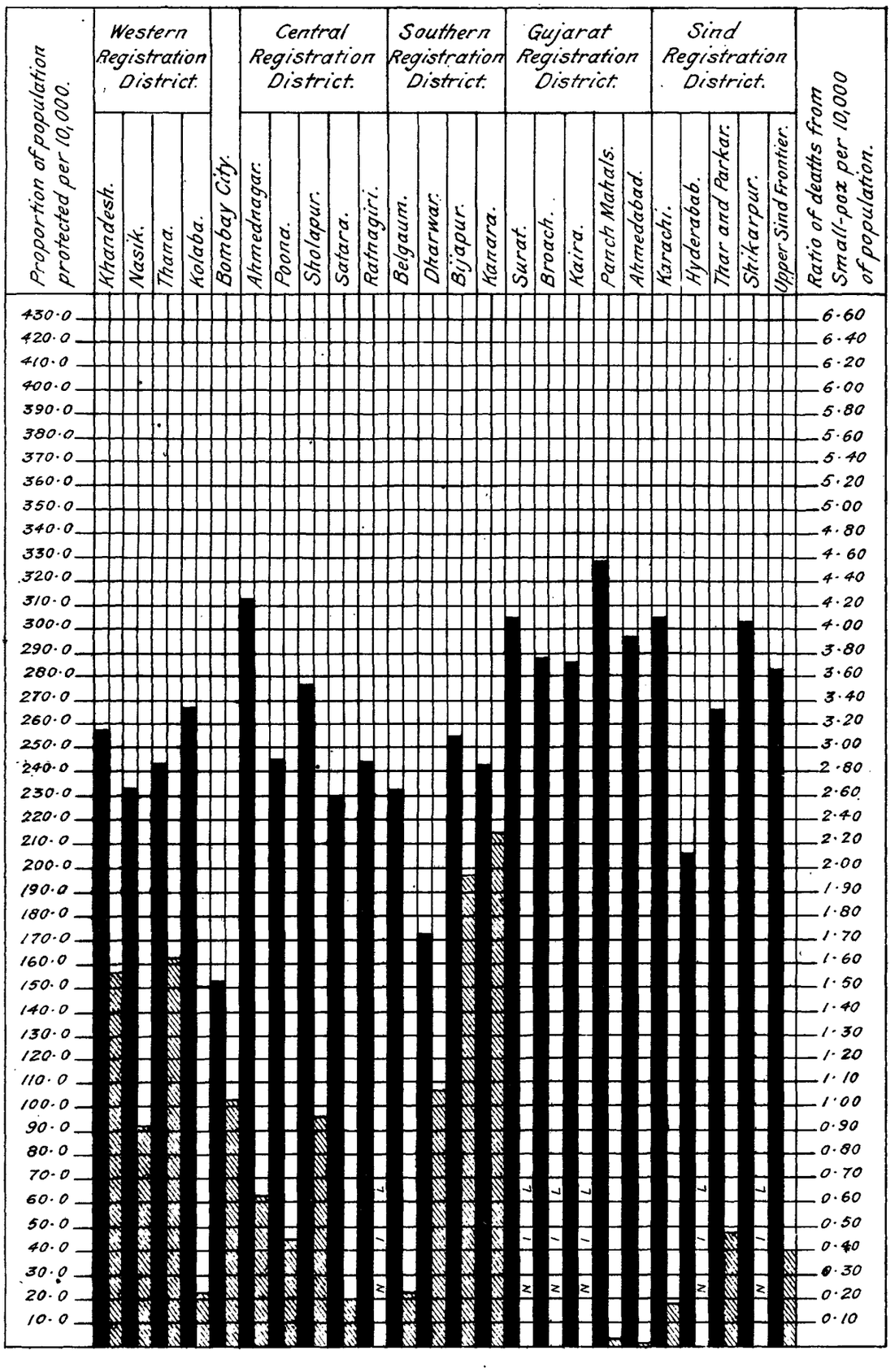
| | Cases. | Deaths. | Mortality per cent. |
|---|---|---|---|
| Unvaccinated ... ... ... | 152 | 67 | 44 |
| Vaccinated ... ... ... | 7 | *Nil.* | *Nil.* |
| Previous small-pox ... ... | 1 | *Nil.* | *Nil.* |

The foregoing shows the effect of small-pox among the small unvaccinated portion of a community, and the protection afforded by vaccination to the much larger portion. Taking the unvaccinated population at 2,400, the above gives an attack-rate of 63·3 and a death-rate of 27·9 per mille, whilst among the 4,600 vaccinated, the attack-rate was only 2·2 per mille and the deaths *nil.* The death-rate of those attacked was 44 per cent., but of those who escaped death there would be some who would lose their sight or be crippled in some way for life, as death is by no means the only disaster which awaits about half of those unvaccinated persons who contract small-pox during an epidemic of the disease.

It is interesting to note that the Arab, whatever his education may be as compared with other more civilised people, knows at any rate what small-pox is among an unvaccinated community, and has learnt the benefit of vaccination when he has had the opportunity of doing so. It is to be hoped that certain

# DIAGRAM.

*Showing proportion of population protected and the death-rate from Small-pox per 10,000 of population during 1898-99.*




Indicates proportion of population protected per 10,000.

___ Do. ___ ratio of deaths from Small-pox per 10,000 of population.

*Drawn & Litho. Govt Photozinco: Office, Poona 1899.*

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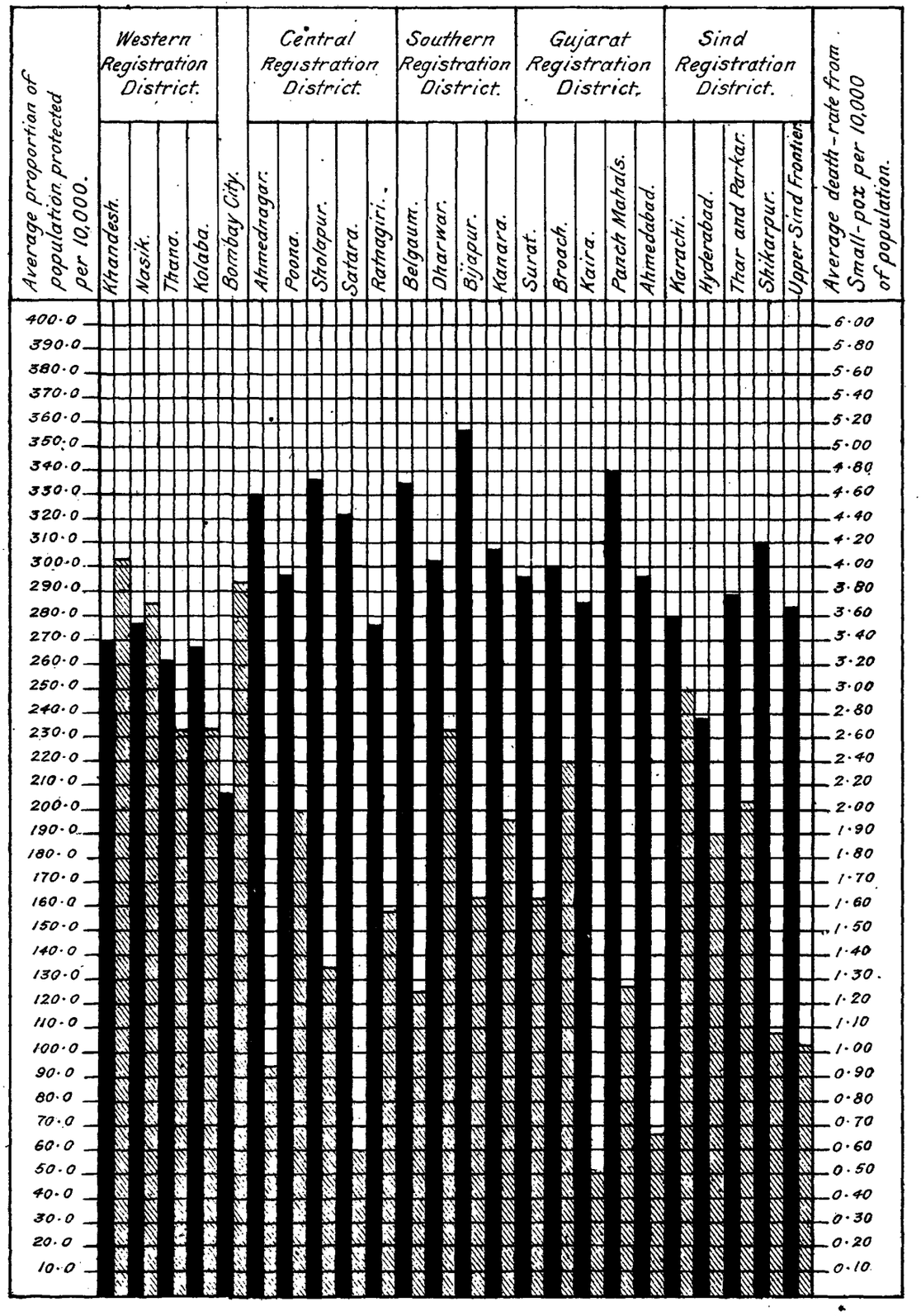
# DIAGRAM.

*Showing the average proportion of population protected, and the average death-rate from Small-pox per 10,000 of population during the ten years 1888-89 to 1897-98 inclusive.*




Indicates average proportion of population protected per 10,000.

_____ Do. _____ death-rate from Small-pox per 10,000 of population.

Drawn & Litho: Govt Photozinco: Office, Poona 1899.

classes of educated people in this country will also learn the same before they are taught it by the same means through which the Arab has gained his knowledge; as, although vaccination has made great progress in this Presidency with satisfactory results and I trust will continue to do so, we cannot expect to be as yet free from the danger of the occurrence of severe epidemics of the disease; and it would be well if those who oppose vaccination were more aware of the fact, and also knew that it is believed that the death-rate among those of the unvaccinated who are attacked by the disease has greatly increased—in England it is believed that it is double what it was at the commencement of the century—among populations in which small-pox has been greatly reduced by vaccination; the unvaccinated, therefore, although from there being less small-pox, they are less liable to contract the disease, are much more likely to die if they do contract it, and in this country, where any day there may be a wide-spread epidemic that would almost to a certainty bring nearly all of them in contact with the infection of the disease, there is the greatest probability that a large majority of those living in infected areas would contract it.

For the information regarding Aden and Southern Arabia I am indebted to Major J. W. T. Anderson, I.M.S., Civil Surgeon, Aden.

Diagrams showing the death-rate from small-pox, and the proportion of population protected against the disease by vaccination.

51. The two usual diagrams are given.

Tour of the Deputy Sanitary Commissioner, Western Registration District.

52. After returning from Plague duty on the 1st June 1898, the Deputy Sanitary Commissioner, Western Registration District, visited the tálukas of Niphád and Chandvad, and returned to Head-quarters. After the rains he inspected the tálukas of Niphád, Chándor and Málegaon of the Násik District, and was proceeding to the Dhulia Táluka when on the 16th November he had to abandon his tour and proceed on Plague duty to the Dhárwár District.

Tour of the Deputy Sanitary Commissioner, Central Registration District.

53. The Deputy Sanitary Commissioner, Central Registration District, visited the tálukas of Junnar, Khed, Bhimthadi, Háveli and Sirúr of the Poona Zilla; Nagar and Jámkhed of the Ahmednager Zilla; Sholápur and Pandharpur of the Sholápur Zilla; and Sátára, Karád and Pátan of the Sátára Zilla. During the latter three months of the touring season the Deputy Sanitary Commissioner was appointed to act as Sanitary Commissioner, Bombay, and as no substitute was appointed to the former post, district work was necessarily suspended.

Tour of the Deputy Sanitary Commissioner, Southern Registration District.

54. The Civil Surgeon, Belgaum, acted as Deputy Sanitary Commissioner throughout the year, and there was practically no touring done, as this officer is supposed only to carry on the office work.

Tour of the Deputy Sanitary Commissioner, Gujarát Registration District.

55. At the beginning of the year, Major T. E. Dyson, I. M. S., was on plague duty in Baroda territory. In April and May 1898 he travelled to A'nand and Bulsár at intervals for plague work. On the 20th May, after office hours, Lieut.-Colonel K. S. Nariman, I. M. S., took charge of the office from Major T. E. Dyson, who went on privilege leave; after his return he was appointed Ophthalmic Surgeon, Jamshedji Jijibhai Hospital, Bombay, and the charge of the office remained with Lieut.-Colonel K. S. Nariman, who visited Bulsár and Chorási Tálukas, Surat Zilla, on plague duty, and made inspections in Surat and Ahmedabad Towns. He also inspected work in Olpád, Chorási, Bulsár and Jalálpor Tálukas of the Surat Zilla, and in the tálukas of Sánand, Viramgám and Parántij in the Ahmedabad Zilla.

Tour of the Deputy Sanitary Commissioner, Sind Registration District.

56. Up to May the Deputy Sanitary Commissioner, Sind Registration District, was on plague duty. From June to November he visited the tálukas of Gorabári, Larkhána, Mehar, Labdarya, Kotri, Sehwan. He returned from privilege leave in March, was on plague duty in

Bombay from the 1st to 20th April, and from the latter date up to to the end of the year inspected the town of Larkhána and the tálukas of Kotri, Larkhána, Ratodero, Mehar, Labdarya and Jacobabad.

Compulsory Vaccination Act in Bombay City.

57. In the City of Bombay the Compulsory Vaccination Act (No. I of 1877) has been in force for 21 years, but is very greatly handicapped by the defective registration of births. The accommodation for calves has been improved but it is only temporary, and permanent arrangements are required. A large majority of the vaccination stations are very unsuitable and insanitary; a central vaccination station and also a depôt for the accommodation of the calves and for the preparation of lymph are very much needed. For the last two and a half years plague has greatly interfered with vaccination work. The following table shows the progress in the protection of infants during the last 23 years, the first two being before, and the last 21 after the introduction of the Act:—

| Years. | | Births returned as having been registered. | Deaths registered among children under one year old. | Children available for Vaccination. | | Children under one year successfully vaccinated. | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Births minus deaths. | At the rate of 31 per 1,000 of population. | Number. | Ratio per 100 on those in Column 4. | Ratio per 100 on those in Column 5. |
| 1 | | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Before the introduction of the Act. | 1876-77 ... | 13,466 | 6,179 | 7,287 | 19,977 | 9,840 | 135·03 | 49·26 |
| | 1877-78 ... | 13,720 | 7,781 | 5,939 | 19,977 | 7,212 | 121·43 | 36·10 |
| After the introduction of the Act. | 1878-79 ... | 13,896 | 6,417 | 7,479 | 19,977 | 6,558 | 87·69 | 32·83 |
| | 1879-80 ... | 14,331 | 5,274 | 9,067 | 19,977 | 7,825 | 86·30 | 39·17 |
| | 1880-81 ... | 16,997 | 6,104 | 10,893 | 19,977 | 10,416 | 95·62 | 52·14 |
| | 1881-82 ... | 16,381 | 6,279 | 10,102 | 23,969 | 12,017 | 118·96 | 50·14 |
| | 1882-83 ... | 15,094 | 5,720 | 9,374 | 23,969 | 14,940 | 159·38 | 62·23 |
| | 1883-84 ... | 14,932 | 6,514 | 8,418 | 23,969 | 12,331 | 146·48 | 51·45 |
| | 1884-85 ... | 14,377 | 6,340 | 8,037 | 23,969 | 13,449 | 167·34 | 56 11 |
| | 1885-86 ... | 14,685 | 6,265 | 8,420 | 23,969 | 13,547 | 160·89 | 56·52 |
| | 1886-87 ... | 14,679 | 5,899 | 8,780 | 23,969 | 13,270 | 151·14 | 52·01 |
| | 1887-88 ... | 15,166 | 5,903 | 9,263 | 23,969 | 14,588 | 157·50 | 60·86 |
| | 1888-89 ... | 16,470 | 6,582 | 9,888 | 23,969 | 14,201 | 143.62 | 59·25 |
| | 1889-90 ... | 15,240 | 6,527 | 8,713 | 23,969 | 14,179 | 162·73 | 59·16 |
| | 1890-91 ... | 15,568 | 5,941 | 9,627 | 23,969 | 15,629 | 162·34 | 65·20 |
| | 1891-92 ... | 15,518 | 7,420 | 8,098 | 25,474 | 16,478 | 203·48 | 64 29 |
| | 1892-93 ... | 15 485 | 7,768 | 7,717 | 25,474 | 15,891 | 205·92 | 62·38 |
| | 1893-94 ... | 15,218 | 6,347 | 8,871 | 25,474 | 13,789 | 155·44 | 54·13 |
| | 1894-95 ... | 15,058 | 7,451 | 7,607 | 25,474 | 14,355 | 188·71 | 56·35 |
| | 1895-96 ... | 15,684 | 4,422 | 11,262 | 25,474 | 14,401 | 127·87 | 56·53 |
| | 1896-97 ... | 15,890 | 7,273 | 8,617 | 25,474 | 9,918 | 115·10 | 38·93 |
| | 1897-98 ... | 9,336 | 6,808 | 2,528 | 25,474 | 9,952 | 393·67 | 39·07 |
| | 1898-99 ... | 10,784 | 6,279 | 4,505 | 25,474 | 9,651 | 214·23 | 37·89 |

Compulsory vaccination in Karáchi Town.

58. In the town of Karáchi the Compulsory Vaccination Act (No. IV of 1899) has been in force for the last 19 years, and the following table shows the yearly progress. During the last three years work has been much interfered with by recurring plague epidemics:—

| Years. | Births returned as having been registered. | Deaths registered among children under one year. | Children available for Vaccination. | | Children under 1 year successfully vaccinated. | | |
|---|---|---|---|---|---|---|---|
| | | | Births minus deaths. | At the rate of 31 per 1,000. | Number. | Ratio per 100 in Column 4. | Ratio per 100 on those in Column 5. |
| 1880-81 ... ... | 1,878 | 309 | 1,569 | 2,118 | 1,917 | 122·18 | 90·51 |
| 1881-82 ... ... | 2,405 | 489 | 1,916 | 2,118 | 2,516 | 131·32 | 118·79 |
| 1882-83 ... ... | 2,985 | 514 | 2,471 | 2,118 | 2,827 | 114·41 | 133·47 |
| 1883-84 ... ... | 3,273 | 728 | 2,545 | 2,118 | 2,693 | 105·42 | 126·68 |
| 1884-85 ... ... | 3,189 | 706 | 2,483 | 2,118 | 3,003 | 120·94 | 141·78 |
| 1885-86 ... ... | 3,056 | 635 | 2,421 | 2,118 | 3,084 | 127·39 | 145·68 |
| 1886-87 ... ... | 3,340 | 841 | 2,499 | 2,118 | 3,015 | 120·65 | 142·35 |
| 1887-88 ... ... | 3,690 | 959 | 2,731 | 2,118 | 3,175 | 116·28 | 149·91 |
| 1888-89 ... ... | 3,722 | 935 | 2,787 | 2,118 | 3,647 | 130·86 | 172·19 |
| 1889-90 ... ... | 3,798 | 1,081 | 2,717 | 2,118 | 3,246 | 119·04 | 153·26 |
| 1890-91 ... ... | 4,022 | 1,018 | 3,004 | 3,261 | 3,347 | 111·42 | 102·63 |
| 1891-92 ... ... | 4,263 | 1,226 | 3,037 | 3,261 | 3,545 | 116·73 | 108·71 |
| 1892-93 ... ... | 4,343 | 1,482 | 2,861 | 3,261 | 2,967 | 103·70 | 90·98 |
| 1893-94 ... ... | 4,036 | 1,102 | 2,934 | 3,221 | 3,032 | 103·34 | 92·98 |
| 1894-95 ... ... | 4,574 | 1,394 | 3,180 | 3,261 | 3,310 | 104·09 | 101·50 |
| 1895-96 ... ... | 4,622 | 1,378 | 3,244 | 3,261 | 3,455 | 106·50 | 105·95 |
| 1896-97 ... ... | 4,836 | 1,425 | 3,411 | 3,261 | 2,783 | 81·59 | 85·34 |
| 1897-98 ... ... | 3,104 | 1,057 | 2,047 | 3,261 | 2,567 | 125·40 | 78·72 |
| 1898-99 ... ... | 3,725 | 1,080 | 2,645 | 3,261 | 2,267 | 123·29 | 69·52 |

Compulsory Vaccination Act in Larkhána town.

59. In the year under report the Bombay District Vaccination Act (I of 1892) was introduced in the town of Larkhána, Sind: *vide* Government Resolution in General Department, No. 6847 of the 14th December 1898.

60. As in 1897-98, the year under report was a disastrous one for vaccination work. Firstly, there was during the latter months of 1897 and the early ones of 1898 a very low birth-rate, and a very high death-rate, especially among children: during 1898 the former was very pronounced, and it was not until August that much improvement took place; then, there was still a certain amount of famine in some parts, and some other parts had not completely recovered from it; the plague was with us all the year and greatly interfered with work, so much so in some parts that vaccination had to be entirely stopped; nearly all the Deputy Sanitary Commissioners were on deputation or leave or on plague duty, and as no full-time officers were appointed, their districts received very little of that inspection and supervision which is so very necessary in order to obtain efficient work, and, lastly, several of the Inspectors and Vaccinators were on plague duty.

All these and many minor difficulties made it a very difficult matter to obtain the usual number of children and to carry on the duties of the Department in the ordinary manner. Remarks explaining the various decreases have not been made after each table as the causes are nearly the same in all, and have been mentioned in paragraph 11 and also in these remarks. It is useless to compare either of the last two years with former ones as they have been very abnormal ones, and there is also not much profit to be got out of comparing the year under report with the previous one as they each tell almost exactly the same tale.

There is now a better birth-rate, it may be said that we have done with famine and its immediate after-effects, and it is to be hoped that the present decrease in plague may continue, so under these circumstances it is believed that better results may be looked for in the present year if only full time Deputy Sanitary Commissioners can be provided.

Considering the very adverse circumstauces under which work has had to be carried on during the last two years, it is, in my opinion, a matter of congratulation that vaccination work has not suffered more than it has. Fortunately there has been no serious epidemic of small-pox to deal with during the last few years, as the deaths from that disease have been low. It is to the good

work which has now for some years been done in the Presidency that we in a great measure owe the small amount of small-pox there has been in these years, more especially in the famine year of 1897 and the year following it. There is, however, still great reason for not relaxing our efforts; and, although the low death-rates during the last twelve years is very satisfactory, still we are by no means safe from the danger of an extensive and fatal epidemic should the disease assume a severe epidemic form, which it is apt to do at intervals. I believe that this Presidency can compare very favourably with other parts of India in the protection afforded, both as regards quantity and quality, but as regards compulsory vaccination it is very much behind many other parts and this prevents us reaching the state of protection we wish to attain, and is likely to affect our efforts in this direction more and more as time goes on.

61. Several of the Deputy Sanitary Commissioners were on Plague duty, either in a special appointment or in addition to their own duties, and rendered able and valuable service. Those who were on duty in their own appointments performed their duties in a very satisfactory manner. Ráo Bahádur Assistant Surgeon S. V. Kantak in addition to his own duties rendered valuable assistance in the cause of inoculation against plague both in Bombay and in the adjacent districts.

My Assistant, Mr. Keess, and the office establishment worked hard and gave me every assistance.

A. W. F. STREET,
LIEUT.-COLONEL, I. M. S.,
Acting Sanitary Commissioner for the
Government of Bombay.

*Sanitary Commissioner's Office,*
*Bombay, 30th May 1899.*

# APPENDIX I.

## A.—VACCINATION RETURN.

Statement No. I., showing Particulars of Vaccination in the Bombay Presidency during the year 1898-99.

| Number. | Circles and Districts. | Population of Districts according to Census of 1891. | Average population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator | Primary Vaccinations. | | | | Re-vaccination. | | Percentage of Successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all ages. | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | THE WESTERN REGISTRATION DISTRICT. | | | | Males. | Females. | Total. | | | | | | | | | | | | | | |
| | KHA'NDESH COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 1 | Dhulia Town, Local Fund ... | 21,880 | 11,891 | ... | P. 302<br>R. 14 | 318<br>4 | 620<br>18 | 638 | 620 | 359 | 153 | 515 | 18 | 4 | 83·06 | 22·22 | 23·72 | 682 | 31·17 | 14 | ·64 |
| 2 | Nandurbár Town, Local Fund. | 7,670 | 16,674 | ... | P. 121<br>R. 2 | 151<br>... | 272<br>2 | 274 | 272 | 120 | 116 | 239 | 2 | 1 | 87·87 | 50· | 31·29 | 125 | 16·30 | 5 | ·65 |
| 3 | Chopda Town, Local Fund ... | 15,655 | 32,615 | ... | P. 243<br>R. 30 | 208<br>10 | 451<br>40 | 491 | 451 | 247 | 168 | 415 | 40 | 20 | 92·02 | 50· | 27·72 | 266 | 16·99 | 7 | ·45 |
| 4 | Nasirabad Town, do. ... | 11,462 | 67,424 | ... | P. 113<br>R. 8 | 161<br>7 | 274<br>15 | 289 | 276 | 227 | 26 | 255 | 15 | 11 | 93·07 | 73·33 | 23·20 | 264 | 23·03 | 2 | ·17 |
| 5 | In the 21 Rural Circles, Local Fund ... ... ... ... | 1,404,184 | 129 | 29 | P. 19,967<br>R. 327 | 20,084<br>199 | 40,051<br>526 | 1,399 | 40,152 | 29,246 | 7,077 | 36,367 | 527 | 388 | 90·80 | 73·76 | 26·17 | 39,859 | 28·39 | 875 | ·62 |
| | Total ... | 1,460,851 | 134 | 29 | P. 20,746<br>R. 381 | 20,922<br>220 | 41,668<br>601 | 1,458 | 41,771 | 30,199 | 7,540 | 37,791 | 602 | 424 | 90·07 | 70·55 | 26·16 | 41,196 | 28·20 | 903 | ·69 |
| | NA'SIK COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 6 | Yeola Town, Municipal ... | 18,861 | 85,732 | 1 | P. 269<br>R. 4 | 232<br>2 | 501<br>6 | 507 | 501 | 362 | 50 | 412 | 6 | 2 | 82·22 | 33·33 | 21·95 | 561 | 29·74 | 16 | ·85 |
| 7 | Násik do. do. ... ... | 24,429 | 43,623 | 1 | P. 394<br>R. 2 | 406<br>... | 800<br>2 | 802 | 800 | 494 | 207 | 703 | 2 | 2 | 87·87 | 100· | 28·86 | 707 | 29·94 | 9 | ·36 |
| 8 | Deoláli Cantonment ... ... | 4,104 | ... | ... | P. 19<br>R. ... | 10<br>... | 29<br>... | 29 | 29 | 3 | 13 | 19 | ... | ... | 65·52 | ... | 4·63 | 69 | 16·81 | ... | ... |
| 9 | Málegaon ... Cantonment ... | 3,759 | 3,007 | 1 | P. 64<br>R. ... | 65<br>... | 129<br>... | 522 | 129 | 114 | 6 | 120 | ... | ... | 93·02 | ... | 31·92 | 132 | 34·85 | ... | ... |
| | Municipal ... | 15,503 | | | P. 189<br>R. ... | 204<br>... | 393<br>... | | 393 | 215 | 133 | 348 | ... | ... | 88·55 | ... | 22·44 | 398 | 25·67 | 1 | ·5 |
| 10 | In the 12 Rural Circles. Local Fund . | 776,926 | 133 | 16 | P. 10,197<br>R. 294 | 10,150<br>134 | 20,347<br>428 | 1,298 | 20,357 | 14,739 | 3,251 | 18,046 | 428 | 226 | 88·20 | 52·80 | 23·52 | 22,893 | 29·46 | 300 | ·39 |
| | Total ... | 843,582 | 142 | 19 | P. 11,132<br>R. 300 | 11,067<br>136 | 22,199<br>436 | 1,191 | 22,209 | 15,927 | 3,660 | 19,648 | 436 | 230 | 88·51 | 52·75 | 28·31 | 24,760 | 29·35 | 326 | ·39 |
| | THA'NA COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 11 | Kalyán Town, Municipal ... | 12,608 | 5,275 | 1 | P. 104<br>R. 2 | 95<br>... | 199<br>2 | 455 | 199 | 146 | 44 | 190 | 2 | 1 | 95·48 | 50· | 15·15 | 294 | 23·32 | 5 | ·40 |
| 12 | Bhiwndi do. do. ... | 14,387 | 38,884 | | P. 123<br>R. ... | 131<br>... | 254<br>... | | 254 | 194 | 60 | 254 | ... | ... | 100· | ... | 17·65 | 295 | 20·50 | ... | ... |
| 13 | Thána do. do. ... | 17,455 | 3,828 | 1 | P. 482<br>R. 1,365 | 254<br>32 | 736<br>1,397 | 2,133 | 736 | 477 | ... | 736 | 1,397 | 80 | 100· | 5·73 | 46·75 | 1,105 | 63·30 | 2 | ·11 |
| 14 | Bándra do. do. ... | 18,759 | 8,141 | 1 | P. 81<br>R. 1 | 90<br>1 | 171<br>2 | 171 | 171 | 80 | 42 | 122 | 2 | ... | 71·35 | ... | 6·50 | 227 | 12·10 | ... | ... |
| 15 | In the 9 Rural Circles. Local Fund . | 756,371 | 215 | 15 | P. 9,193<br>R. 203 | 9,188<br>175 | 18,381<br>378 | 1,323 | 18,388 | 13,008 | 4,557 | 17,700 | 378 | 227 | 96·30 | 60·05 | 25·4 | 19,150 | 25·32 | 149 | ·20 |
| | Municipal ... | | | | P. 574<br>R. 1 | 517<br>1 | 1,091<br>2 | | 1,122 | 863 | 146 | 1,013 | 2 | 2 | 92·85 | 100· | | | | | |
| | Total ... | 819,580 | 230 | 18 | P. 10,557<br>R. 1,572 | 10,275<br>209 | 20,832<br>1,781 | 1,256 | 20,870 | 14,768 | 4,849 | 20,015 | 1,781 | 310 | 96·08 | 17·43 | 24·80 | 21,071 | 25·71 | 156 | ·19 |

## Statement No. I, showing Particulars of Vaccination, &c.—*continued.*

| Number. | Circles and Districts. | Population of Districts according to Census of 1891. | Average population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. | Primary Vaccinations. | | | | Re-vaccination. | | Percentage of Successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all ages. | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | THE WESTERN REGISTRATION DISTRICT—*contd.* | | | | Males. | Females. | Total. | | | | | | | | | | | | | | |
| | KOLA'BA COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 16 | Panvel Town, Local Fund ... | 10,420 | 52,100 | ... | P. 34<br>R. 1 | 34<br>1 | 68<br>2 | 70 | 68 | 50 | 15 | 66 | 2 | ... | 97·06 | ... | 6·33 | 118 | 11·32 | 3 | ·28 |
| 17 | Alibág do. do. ... | 5,888 | 9,813 | ... | P. 28<br>R. 10 | 43<br>4 | 71<br>14 | 85 | 71 | 37 | 22 | 59 | 14 | 3 | 83·10 | 21·43 | 10·52 | 109 | 18·51 | 10 | 1·70 |
| 18 | Mahád do. do. ... | 6,870 | 13,740 | ... | P. 104<br>R. 10 | 103<br>15 | 207<br>25 | 232 | 207 | 99 | 83 | 186 | 25 | 8 | 89·85 | 32· | 28·24 | 261 | 37·99 | 1 | ·15 |
| 19 | In the 8 Rural Circles, Local Fund. | 571,694 | 250 | 14 | P. 8,104<br>R. 539 | 7,986<br>986 | 16,090<br>1,525 | 1,258 | 16,100 | 12,656 | 2,885 | 15,636 | 1,525 | 996 | 97·18 | 65·31 | 29·09 | 16,874 | 29·52 | 145 | ·25 |
| | Total ... | 594,872 | 270 | 14 | P. 8,270<br>R. 560 | 8,166<br>1,006 | 16,436<br>1,566 | 1,286 | 16,446 | 12,842 | 3,005 | 15,947 | 1,566 | 1,007 | 97·02 | 64·30 | 28·50 | 17,362 | 29·19 | 159 | ·27 |
| | NATIVE STATES— | | | | | | | | | | | | | | | | | | | | |
| 20 | Jawhár ... ... ... ... | 52,831 | 99 | 1 | P. 624<br>R. 61 | 664<br>126 | 1,288<br>187 | 1,475 | 1,288 | 1,104 | 182 | 1,286 | 187 | 187 | 99·84 | 100· | 27·86 | 2,441 | 40·53 | ... | ... |
| 21 | Janjira ... ... ... ... | 81,780 | 252 | 2 | P. 1,325<br>R. 200 | 1,228<br>41 | 2,553<br>241 | 1,397 | 2,555 | 2,294 | 229 | 2,533 | 241 | 169 | 99·22 | 70·12 | 33·04 | 2,871 | 35·12 | ... | ... |
| 22 | Dángs ... ... ... ... | 32,920 | 59 | 1 | P. 105<br>R. ..... | 89<br>... | 194<br>... | 194 | 194 | 26 | 83 | 114 | ... | ... | 58·76 | ... | 3·46 | 776 | 23·57 | ... | ... |
| 23 | Surgána ... ... ... ... | 12,398 | 34 | ... | P. .....<br>R. ..... | ...<br>... | ...<br>... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Total ... | 179,929 | 96 | 4 | P. 2,054<br>R. 261 | 1,981<br>167 | 4,035<br>428 | 115 | 4,037 | 3,424 | 494 | 3,933 | 428 | 356 | 90·03 | 83·13 | 23·84 | 6,088 | 33·83 | ... | ... |
| | TOTAL BY ESTABLISHMENT IN WESTERN REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | | |
| | Cantonment ... ... .. | 7,863 | 629 | 1 | P. 83<br>R. ..... | 75<br>... | 158<br>... | 158 | 158 | 117 | 19 | 139 | ... | ... | 87·97 | ... | 17·68 | 200 | 25·43 | ... | ... |
| | Municipal ... ... ... | 122,002 | ... | 5 | P. 2,216<br>R. 1,375 | 1,929<br>36 | 4,145<br>1,411 | 1,111 | 4,176 | 2,831 | 682 | 3,778 | 1,411 | 87 | 91·15 | 6·17 | 31·68 | 3,587 | 29·40 | 33 | ... |
| | Local Fund ... ... ... | 3,589,020 | ... | 74 | P. 48,406<br>R. 1,438 | 48,426<br>1,535 | 96,832<br>2,973 | 1,349 | 96,962 | 70,788 | 18,353 | 89,484 | 2,974 | 1,884 | 92·41 | 63·37 | 25·61 | 100,601 | 28·03 | 1,511 | ... |
| | Native States ... ... ... | 179,929 | 96 | 4 | P. 2,054<br>R. 261 | 1,981<br>167 | 4,035<br>428 | 1,115 | 4,037 | 3,424 | 494 | 3,933 | 428 | 356 | 90·03 | 83·13 | 23·84 | 6,088 | 33·83 | ... | ... |
| | Grand Total ... | 3,898,814 | 151 | 84 | P. 52,759<br>R. 3,074 | 52,411<br>1,738 | 105,170<br>4,812 | 1,309 | 105,333 | 77,160 | 19,548 | 97,334 | 4,813 | 2,327 | 92·55 | 48·17 | 25·56 | 110,476 | 28·34 | 1,544 | ... |
| | THE PRESIDENCY CIRCLE. | | | | | | | | | | | | | | | | | | | | |
| 24 | Bombay City (Municipal) ... | 821,764 | 37,353 | 8 | P. 6,524<br>R. 1,009 | 6,570 | 13,094<br>1,046 | ... | 13,144 | 9,651 | 2,626 | 12,430 | 1,046 | 207 | 94·93 | 19·79 | 15·3 | 16,183 | 19·69 | 348 | ·42 |

| | THE CENTRAL REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AHMEDNAGAR COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 25 | Ahmednagar Town, Municipal | 36,083 | 72,166 | 1 | P. 863<br>R. 642 | 660<br>121 | 1,523<br>763 | 2,286 | 1,523 | 863 | 364 | 1,436 | 763 | 603 | 94·28 | 79·03 | 56·51 | 1,796 | 49·77 | 12 | ·33 |
| 26 | Ahmednagar Cantonment ... | 5,606 | ... | ... | P. 84<br>R. 162 | 92<br>2 | 176<br>164 | 340 | 176 | 119 | 37 | 162 | 164 | 104 | 92·04 | 63·41 | 47·27 | 235 | 41·91 | ... | ... |
| 27 | Sangamner Town, Local Fund | 9,733 | 16,497 | ... | P. 200<br>R. 11 | 201.<br>... | 401<br>11 | 412 | 401 | 289 | 75 | 369 | 11 | 5 | 92·02 | 45·45 | 38·43 | 348 | 35·75 | 2 | ·20 |
| 28 | In the 11 Rural Circles, Local Fund. | 837,333 | 127 | 14 | P. 14,223<br>R. 321 | 14,007<br>23 | 28,230<br>344 | 2,041 | 28,230 | 22,249 | 3,454 | 25,791 | 344 | 215 | 91·36 | 62·50 | 31·42 | 27,989 | 33·44 | 97 | ·12 |
| | Total ... | 888,755 | 135 | 15 | P. 15,370<br>R. 1,136 | 14,960<br>146 | 30,330<br>1,282 | 2,708 | 30,330 | 23,520 | 3,930 | 27,758 | 1,282 | 927 | 91·52 | 72·31 | 32·03 | 30,368 | 34·17 | 111 | ·12 |
| | POONA COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 29 | Poona City, Municipal ... ... | 118,790 | 24,645 | 2 | P. 1,580<br>R. 15 | 1,649<br>5 | 3,229<br>20 | 1,625 | 3,230 | 1,608 | 1,234 | 2,850 | 20 | 12 | 88·96 | 60·0 | 24·09 | 3,110 | 26·17 | 20 | ·17 |
| 30 | Poona and Kirkee Cantonment. | 46,045 | 4,978 | 2 | P. 917<br>R. 1,064 | 852<br>110 | 1,769<br>1,174 | 1,521 | 1,776 | 969 | 479 | 1,493 | 1,177 | 416 | 84·39 | 35·34 | 41·46 | 2,166 | 47·04 | ... | ... |
| 31 | Junnar Town, Local Fund ... | 11,905 | 33,069 | ... | P. 137<br>R. 5 | 170<br>... | 307<br>5 | 312 | 307 | 191 | 103 | 297 | 5 | 4 | 96·74 | 80·0 | 25·28 | 340 | 28·56 | 28 | 2·35 |
| 32 | In the 8 Rural Circles. Local Fund ... | 891,060 | 177 | 15 | P. 12,305<br>R. 310 | 11,913<br>56 | 24,218<br>366 | 1,639 | 24,241 | 16,983 | 4,190 | 21,331 | 366 | 196 | 88·08 | 53·55 | 24·15 | 26,552 | 29·90 | 144 | ·16 |
| | In the 8 Rural Circles. Municipal ... | | | | P. 108<br>R. 813 | 87<br>71 | 195<br>884 | 1,079 | 195 | 116 | 39 | 156 | 884 | 389 | 80·00 | 44·00 | ·61 | | | | |
| | Total ... | 1,067,800 | 212 | 19 | P. 15,047<br>R. 2,207 | 14,671<br>242 | 29,718<br>2,449 | 1,693 | 29,749 | 19,867 | 6,045 | 26,127 | 2,452 | 1,017 | 87·92 | 41·53 | 25·42 | 32,168 | 30·12 | 192 | ·18 |
| | SHOLÁPUR COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 33 | Sholápur Town, Municipal ... | 61,915 | 9,525 | 1 | P. 1,328<br>R. 157 | 1,216<br>7 | 2,544<br>164 | 2,708 | 2,544 | 1,536 | 694 | 2,251 | 164 | 160 | 88·48 | 97·56 | 38·94 | 2,080 | 33·59 | 47 | ·76 |
| 34 | Bársi do. do. ... | 20,569 | 1,327 | 1 | P. 337<br>R. 8 | 302<br>2 | 639<br>10 | 649 | 639 | 463 | 115 | 582 | 10 | 4 | 91·08 | 40·00 | 28·49 | 710 | 34·52 | 14 | ·68 |
| 35 | Pandharpur do. do. ... | 19,954 | 1,976 | 1 | P. 284<br>R. 3 | 263<br>... | 547<br>3 | 550 | 547 | 395 | 133 | 533 | 3 | ... | 97·44 | ... | 26·71 | 672 | 33·73 | ... | ... |
| 36 | In the 7 Rural Circles. Local Fund .. | 648,251 | 143 | 11 | P. 9,237<br>R. 82 | 8,748<br>12 | 17,985<br>94 | 1,644 | 17,988 | 13,181 | 2,849 | 16,073 | 94 | 60 | 89·37 | 63·83 | 24·94 | 22,137 | 34·15 | 51 | ·08 |
| | In the 7 Rural Circles. Municipal ... | | | | P. 692<br>R. 1 | 716<br>... | 1,408<br>1 | 1,409 | 1,409 | 1,293 | 115 | 1,351 | 1 | 1 | 96·16 | 100·00 | 2·09 | | | | |
| | Total ... | 750,689 | 164 | 14 | P. 11,878<br>R. 251 | 11,245<br>21 | 23,123<br>272 | 1,671 | 23,127 | 16,808 | 3,906 | 20,793 | 272 | 225 | 89·93 | 82·72 | 28·00 | 25,599 | 34·10 | 112 | ·15 |
| | SÁTÁRA COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 37 | Karád Town, Local Fund ... | 12,086 | 32,655 | ... | P. 153<br>R. ... | 147<br>... | 300<br>... | 300 | 300 | 184 | 101 | 287 | ... | ... | 95·67 | ... | 23·74 | 298 | 24·60 | ... | ... |
| 38 | Wái do. do. ... | 12,438 | 6,219 | ... | P. 142<br>R. 1 | 151<br>1 | 293<br>2 | 295 | 293 | 185 | 99 | 286 | 2 | 2 | 97·61 | 100·00 | 23·15 | 365 | 29·35 | 2 | ·16 |
| 39 | Sátára Town, Municipal ... | 25,750 | 31,402 | 1 | P. 567<br>R. 474 | 371<br>30 | 938<br>504 | 1,442 | 938 | 439 | 253 | 851 | 504 | 315 | 90·72 | 62·50 | 44·89 | 1,131 | 43·92 | 4 | ·15 |
| 40 | In the 12 Rural Circles. Local Fund . | 1,175,715 | 244 | 19 | P. 14,251<br>R. 152 | 13,856<br>10 | 28,107<br>162 | 1,488 | 28,121 | 22,992 | 3,639 | 26,698 | 162 | 94 | 95·70 | 58·03 | 23·64 | 37,412 | 31·82 | 59 | ·05 |
| | In the 12 Rural Circles. Municipal ... | | | | P. 34<br>R. ... | 33<br>... | 67<br>... | 67 | 67 | 48 | 17 | 66 | ... | ... | 98·51 | ... | ·06 | | | | |
| | Total ... | 1,225,989 | 254 | 20 | P. 15,147<br>R. 627 | 14,558<br>41 | 29,705<br>668 | 1,519 | 29,719 | 23,848 | 4,114 | 28,188 | 668 | 411 | 94·89 | 61·51 | 23·33 | 39,206 | 31·98 | 65 | ·05 |

## Statement No. I, showing Particulars of Vaccination, &c.—*continued.*

| Number. | Circles and Districts. | Population of Districts according to Census of 1891. | Average population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. | Primary Vaccinations. | | | | Revaccination. | | Percentage of Successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Revaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all ages. | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | THE CENTRAL REGISTRATION DISTRICT—*continued.* | | | | Males. | Females. | Total. | | | | | | | | | | | | | | |
| | RATNÁGIRI COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 41 | Vengurla Town, Municipal ... | 10,134 | ... | 1 | P. 137<br>R. 1 | 104<br>2 | 241<br>3 | 244 | 241 | 188 | 41 | 230 | 3 | 3 | 95·44 | 100·00 | 22·30 | 343 | 33·85 | 1 | ·10 |
| 42 | Ratnágiri Town, Local Fund... | 14,303 | ... | ... | P. 196<br>R. 3 | 153<br>1 | 349<br>4 | 353 | 349 | 163 | 169 | 339 | 4 | 3 | 97·13 | 75·00 | 23·91 | 364 | 25·15 | 6 | ·42 |
| 43 | In the 8 Rural Circles ... Local Fund... | 1,081,489 | 276 | 15 | P. 13,902<br>R. 269 | 13,287<br>374 | 27,189<br>643 | 1,856 | 27,195 | 17,867 | 8,009 | 26,050 | 643 | 352 | 95·81 | 54·74 | 24·41 | 28,598 | 26·44 | 153 | ·14 |
| | In the 8 Rural Circles ... Municipal ... | | | | P. 181<br>R. 3 | 156<br>2 | 337<br>5 | 342 | 337 | 255 | 72 | 328 | 5 | 5 | 97·33 | 100·00 | ·31 | | | | |
| | Total ... | 1,105,926 | 282 | 16 | P. 14,416<br>R. 276 | 13,700<br>379 | 28,116<br>655 | 1,798 | 28,122 | 18,473 | 8,291 | 26,947 | 655 | 363 | 95·84 | 55·42 | 24·69 | 29,305 | 26·50 | 160 | ·14 |
| | NATIVE STATES— | | | | | | | | | | | | | | | | | | | | |
| 44 | Akalkot... ... ... ... | 75,774 | 152 | 1 | P. 1,128<br>R. 86 | 1,030<br>25 | 2,158<br>111 | 2,269 | 2,158 | 925 | 637 | 1,578 | 111 | 86 | 73·12 | 77·47 | 21·96 | 1,635 | 21·58 | ... | ... |
| 45 | Bhor (Pant Sachiv) ... ... | 155,669 | 105 | 3 | P. 1,507<br>R. ... | 1,376<br>... | 2,883<br>... | 961 | 2,883 | 2,141 | 592 | 2,739 | ... | ... | 95·01 | ... | 17·60 | 3,944 | 25·34 | ... | ... |
| 46 | Aundh (Pant Pratinidhi) ... | 65,146 | 146 | 2 | P. 774<br>R. 2 | 732<br>1 | 1,506<br>3 | 755 | 1,511 | 907 | 385 | 1,316 | 3 | 3 | 87·50 | 100·00 | 20·25 | 1,809 | 27·77 | ... | ... |
| 47 | Phaltan ... ... ... ... | 66,383 | 167 | 1 | P. 1,040<br>R. ... | 974<br>... | 2,014<br>... | 2,014 | 2,014 | 1,629 | 305 | 1,937 | ... | ... | 96·18 | ... | 29·18 | 1,980 | 29·83 | ... | ... |
| 48 | Sávantvádi ... ... ... | 192,948 | 208 | 5 | P. 2,580<br>R. 59 | 2,451<br>23 | 5,031<br>82 | 1,023 | 5,071 | 3,778 | 1,082 | 4,887 | 82 | 35 | 97·14 | 42·68 | 25·51 | 6,179 | 32·02 | ... | ... |
| | TOTAL BY ESTABLISHMENTS IN THE CENTRAL REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | | |
| | Cantonment... ... ... ... | 46,045 | 4,978 | 1 | P. 917<br>R. 1,064 | 852<br>110 | 1,769<br>1,174 | 1,472 | 1,776 | 969 | 479 | 1,493 | 1,177 | 416 | 84·40 | 35·43 | 41·46 | 2,166 | 47·04 | ... | ... |
| | Municipal ... ... ... ... | 298,801 | 34,746 | 9 | P. 6,195<br>R. 2,279 | 5,649<br>242 | 11,844<br>2,521 | 1,796 | 11,846 | 7,263 | 3,119 | 10,799 | 2,521 | 1,596 | 91·18 | 63·31 | 41·48 | 10,078 | 42·31 | 104 | ·35 |
| | Local Fund ... ... ... ... | 4,694,313 | 185 | 74 | P. 64,746<br>R. 1,154 | 62,633<br>477 | 127,379<br>1,631 | 1,743 | 127,425 | 94,284 | 22,688 | 117,521 | 1,631 | 931 | 92·26 | 57·08 | 25·23 | 144,403 | 30·21 | 536 | ·11 |
| | Native States ... ... ... | 555,920 | 148 | 12 | P. 7,029<br>R. 147 | 6,563<br>49 | 13,592<br>196 | 1,149 | 13,637 | 9,380 | 3,001 | 12,457 | 196 | 124 | 91·65 | 63·27 | 22·63 | 15,547 | 27·98 | ... | ... |
| | Total ... | 5,595,079 | 223 | 96 | P. 78,887<br>R. 4,644 | 75,697<br>878 | 154,584<br>5,522 | 1,668 | 154,684 | 111,896 | 29,287 | 142,270 | 5,525 | 3,067 | 92·03 | 55·51 | 25·98 | 172,194 | 30·78 | 640 | ·11 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | THE SOUTHERN REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | |
| | BELGAUM COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 49 | Gokák Town, Municipal ... | 12,106 | 31,041 | 1 | P. 121<br>R. 19 | 107<br>... | 228<br>19 | 680 | 228 | 154 | 55 | 211 | 19 | 7 | 92·54 | 36·84 | 18· | 413 | 34·12 | 1 | ·08 |
| 50 | Athni do. do. ... | 10,416 | 11,322 | | P. 194<br>R. 44 | 187<br>8 | 381<br>52 | | 384 | 191 | 117 | 312 | 52 | 14 | 81·89 | 26·92 | 31·29 | 400 | 38·40 | 1 | ·09 |
| 51 | Belgaum do. do. ... | 28,423 | 62,932 | 1 | P. 410<br>R. 58 | 224<br>... | 634<br>58 | 849 | 634 | 284 | 58 | 524 | 58 | 46 | 82·65 | 79·31 | 20·05 | 1,498 | 57·63 | 7 | ·25 |
| 52 | Do. Cantonment ... ... | 12,314 | ... | | P. 80<br>R. 12 | 65<br>... | 145<br>12 | | 145 | 108 | 16 | 124 | 12 | 9 | 82·52 | 75· | 10·80 | 219 | 17·78 | 1 | ·08 |
| 53 | In the 7 Rural Circles, Local Fund. | 950,002 | 204 | 17 | P. 12,094<br>R. 2,493 | 11,746<br>448 | 23,840<br>2,941 | 1,575 | 23,841 | 18,655 | 3,534 | 22,367 | 2,941 | 1,506 | 93·82 | 51·21 | 25·12 | 33,633 | 35·40 | 82 | ·09 |
| | Total ... | 1,013,261 | 217 | 19 | P. 12,899<br>R. 2,626 | 12,329<br>456 | 25,228<br>3,082 | 1,490 | 25,232 | 19,392 | 3,780 | 23,538 | 3,082 | 1,582 | 93·30 | 51·33 | 24·79 | 36,163 | 33·69 | 92 | ·09 |
| | DHA'RWA'R COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 54 | Dhárwár Town, Municipal ... | 32,841 | 28,333 | 1 | P. 357<br>R. 196 | 296<br>4 | 653<br>200 | 853 | 653 | 485 | 82 | 593 | 200 | 166 | 90·84 | 83· | 23·11 | 1,736 | 52·86 | 2 | ·06 |
| 55 | Hubli do. do. ... | 52,595 | 44,232 | 1 | P. 760<br>R. 93 | 753<br>7 | 1,513<br>100 | 1,613 | 1,513 | 1,196 | 218 | 1,419 | 100 | 52 | 93·79 | 52· | 27·96 | 1,958 | 37·23 | 4 | ·08 |
| 56 | Gadag-Betgeri Town do. ... | 23,899 | 85,075 | 1 | P. 377<br>R. 114 | 337<br>3 | 714<br>117 | 831 | 716 | 490 | 88 | 581 | 117 | 5 | 81·37 | 4·27 | 24·51 | 1,236 | 51·72 | 2 | ·08 |
| 57 | Ránebennur Town, Local Fund. | 13,761 | 37,178 | 1 | P. 155<br>R. 54 | 127<br>5 | 282<br>59 | 341 | 282 | 169 | 14 | 210 | 59 | 34 | 74·47 | 58·63 | 17·73 | 439 | 31·90 | 10 | ·73 |
| 58 | In the 14 Rural Circles, Local Fund. | 928,218 | 225 | 18 | P. 9,168<br>R. 1,952 | 8,747<br>93 | 17,915<br>2,045 | 1,108 | 17,921 | 12,616 | 2,488 | 15,343 | 2,045 | 776 | 85·64 | 37·95 | 17·36 | 28,562 | 30·77 | 138 | ·15 |
| | Total .... | 1,051,314 | 232 | 22 | P. 10,817<br>R. 2,409 | 10,260<br>112 | 21,077<br>2,521 | 1,072 | 21,085 | 14,956 | 2,890 | 18,146 | 2,521 | 1,033 | 86·09 | 40·98 | 18·24 | 33,931 | 32·27 | 156 | ·15 |
| | BIJA'PUR COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 59 | Bijápur Town, Municipal ... | 16,759 | 7,863 | 1 | P. 416<br>R. 93 | 359<br>44 | 775<br>137 | 912 | 775 | 553 | 157 | 753 | 137 | 100 | 97·76 | 72·99 | 50·89 | 753 | 44·93 | ... | ... |
| 60 | Bágalkot do. do. ... | 18,034 | 168 | 1 | P. 230<br>R. 19 | 343<br>... | 573<br>19 | 592 | 573 | 510 | 24 | 534 | 19 | 14 | 93·19 | 73·68 | 30·39 | 1,044 | 57·89 | ... | ... |
| 61 | Kaládgi do. Local Fund ... | 4,622 | 88,516 | 11 | P. 58<br>R. 50 | 57<br>... | 115<br>50 | 2,213 | 115 | 101 | 13 | 115 | 50 | 50 | 100· | 100· | 35·69 | 120 | 25·96 | ... | ... |
| 62 | In the 8 Rural Circles, Local Fund. | 756,924 | 134 | | P. 10,310<br>R. 3,040 | 9,791<br>1,144 | 20,001<br>4,184 | | 20,017 | 15,035 | 3,530 | 18,963 | 4,184 | 3,058 | 94·81 | 73·09 | 29·09 | 28,085 | 37·11 | 61 | ·08 |
| | Total ... | 796,339 | 138 | 13 | P. 10,974<br>R. 3,202 | 10,550<br>1,188 | 21,464<br>4,390 | 1,988 | 21,480 | 16,199 | 3,724 | 20,365 | 4,390 | 3,222 | 94·88 | 73·17 | 29·62 | 30,002 | 37·67 | 61 | ·01 |
| | KA'NARA COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 63 | Kárwár Town, Municipal ... | 14,579 | 1,233 | 1 | P. 408<br>R. 127 | 284<br>16 | 692<br>143 | 835 | 692 | 336 | 187 | 591 | 143 | 93 | 85·40 | 65·04 | 46·92 | 599 | 41·09 | 1 | ·07 |
| 64 | Kumta do. Local Fund ... | 10,714 | 1,458 | 1 | P. 159<br>R. 22 | 165<br>34 | 324<br>56 | 380 | 324 | 134 | 139 | 297 | 56 | 32 | 91·67 | 57·14 | 30·71 | 327 | 30·52 | ... | ... |
| 65 | In the 11 Rural Circles, Local Fund. | 421,058 | 108 | 14 | P. 6,277<br>R. 1,876 | 5,428<br>830 | 11,705<br>2,706 | 1,029 | 11,706 | 4,432 | 3,907 | 9,879 | 2,706 | 1,640 | 84·39 | 60·61 | 27·36 | 13,646 | 32·41 | 67 | ·25 |
| | Total ... | 446,351 | 114 | 16 | P. 6,844<br>R. 2,025 | 5,877<br>880 | 12,721<br>2,905 | 976 | 12,722 | 4,902 | 4,233 | 10,767 | 2,905 | 1,765 | 84·64 | 60·75 | 28·08 | 14,572 | 32·65 | 68 | ·15 |

## Statement No. I, showing Particulars of Vaccination, &c.—*continued*

| Number. | Circles and Districts. | Population of Districts according to Census of 1891. | Average population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. | Primary Vaccinations. | | | | Revaccination. | | Percentage of successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Revaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000 |
| | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all ages. | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | THE SOUTHERN REGISTRATION DISTRICT—*continued.* | | | | Males. | Females. | Total. | | | | | | | | | | | | | | |
| | SOUTHERN MARÁTHA JÁGHIRS— | | | | | | | | | | | | | | | | | | | | |
| 66 | Sángli ... ... ... .. | 238,945 | 267 | 8 | P. 2,179<br>R. 660 | 2,152<br>246 | 4,331<br>906 | 654 | 4,337 | 3,358 | 473 | 3,844 | 906 | 276 | 88·75 | 30·46 | 17·24 | 7,413 | 31·02 | ... | ... |
| 67 | Jamkhandi ... ... ... | 102,162 | 208 | 2 | P. 1,605<br>R. 81 | 1,545<br>48 | 3,150<br>129 | 1,639 | 3,150 | 2,374 | 668 | 3,116 | 129 | 109 | 98·92 | 84·49 | 31·56 | 3,743 | 36·64 | ... | ... |
| 68 | Miraj (Senior) ... ... ... | 88,343 | 260 | 2 | P. 914<br>R. 66 | 928<br>5 | 1,842<br>71 | 956 | 1,842 | 1,531 | 292 | 1,826 | 71 | 69 | 99·13 | 97·18 | 21·45 | 2,812 | 31·83 | ... | ... |
| 69 | Do. (Junior) ... ... ... | 35,487 | 171 | 1 | P. 359<br>R. 60 | 316<br>6 | 675<br>66 | 741 | 675 | 550 | 109 | 659 | 66 | 60 | 97·63 | 90·91 | 20·27 | 1,087 | 30·63 | ... | ... |
| 70 | Kurundvád (Senior) ... ... | 43,809 | 241 | 1 | P. 457<br>R. 235 | 458<br>94 | 915<br>329 | 1,244 | 915 | 596 | 203 | 837 | 329 | 228 | 91·48 | 69·30 | 24·31 | 1,383 | 31·57 | ... | ... |
| 71 | Do. (Junior) ... .. | 32,528 | 285 | 1 | P. 349<br>R. 49 | 350<br>4 | 699<br>53 | 752 | 699 | 482 | 155 | 644 | 53 | 37 | 92·13 | 69·81 | 20·93 | 985 | 30·28 | ... | ... |
| 72 | Mudhol ... ... ... ... | 61,815 | 171 | 1 | P. 981<br>R. 42 | 916<br>23 | 1,897<br>65 | 1,962 | 1,897 | 1,368 | 402 | 1,812 | 65 | 32 | 95·52 | 49·23 | 29·83 | 2,069 | 33·47 | ... | ... |
| 73 | Rámdurg ... ... ... | 36,181 | 258 | 1 | P. 381<br>R. 70 | 391<br>7 | 772<br>77 | 849 | 785 | 532 | 192 | 726 | 77 | 20 | 94·04 | 25·97 | 20·62 | 1,381 | 38·17 | ... | ... |
| 74 | Jath and Daphlápur States ... | 79,786 | 81 | 2 | P. 1,198<br>R. 434 | 1,134<br>121 | 2,332<br>555 | 1,443 | 2,342 | 1,618 | 473 | 2,116 | 555 | 316 | 90·73 | 56·94 | 30·48 | 2,910 | 36·47 | ... | ... |
| | Total ... | 719,056 | 381 | 19 | P. 8,423<br>R. 1,697 | 8,190<br>554 | 16,613<br>2,251 | 992 | 16,642 | 12,409 | 2,967 | 15,580 | 2,251 | 1,147 | 93·78 | 50·95 | 23·26 | 23,783 | 33·08 | ... | ... |
| | UNDER THE DHÁRWÁR AGENCY— | | | | | | | | | | | | | | | | | | | | |
| | STATE | | | | | | | | | | | | | | | | | | | | |
| 75 | Sávanur ... ... ... .. | 16,976 | 324 | 1 | P. 308<br>R. 82 | 304<br>12 | 612<br>94 | 706 | 622 | 356 | 168 | 525 | 94 | 43 | 85·78 | 45·74 | 33·46 | ·545 | 32·10 | ... | ... |
| 76 | Kolhápur State... ... ... | 913,131 | 324 | 13 | P. 10,611<br>R. 4,368 | 10,145<br>1,161 | 20,756<br>5,529 | 2,021 | 20,805 | 14,483 | 5,496 | 20,228 | 5,529 | 3,718 | 97·46 | 67·24 | 26·22 | 29,210 | 31·99 | ... | ... |
| | TOTALS BY ESTABLISHMENTS IN THE SOUTHERN REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | | |
| | Municipal ... ... ... | 221,966 | 8,401 | 8 | P. 3,253<br>R. 775 | 2,955<br>82 | 6,308<br>857 | 895 | 6,313 | 4,307 | 1,002 | 5,642 | 857 | 506 | 88·81 | 59·04 | 27·69 | 9,856 | 39·72 | 19 | ·13 |
| | Local Fund ... ... ... | 3,085,299 | 164 | 62 | P. 38,121<br>R. 9,487 | 36,061<br>2,554 | 74,182<br>12,041 | 1,390 | 74,206 | 51,142 | 13,625 | 67,174 | 12,041 | 7,096 | 90·55 | 58·92 | 24·01 | 104,812 | 32·53 | 359 | ·11 |
| | Native States ... ... ... | 1,649,163 | 354 | 33 | P. 19,342<br>R. 6,147 | 18,639<br>1,727 | 37,981<br>7,874 | 1,389 | 38,069 | 27,248 | 8,631 | 36,333 | 7,874 | 4,908 | 95·66 | 62·33 | 25·01 | 53,538 | 31·01 | ... | ... |
| | Grand Total ... | 4,956,428 | 195 | 103 | P. 60,816<br>R. 16,409 | 57,655<br>4,363 | 118,471<br>20,772 | 1,352 | 118,588 | 82,697 | 23,258 | 109,149 | 20,772 | 12,510 | 92·13 | 60·23 | 24·54 | 168,206 | 32·35 | 378 | ·71 |
| | THE GUJARA'T REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | | |
| | SURAT COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 77 | Bulsár Town, Local Fund ... | 14,779 | 5,912 | ... | P. 111<br>R. 1 | 102<br>... | 213<br>1 | 214 | 213 | 124 | 61 | 188 | 1 | ... | 88·26 | ... | 12·72 | 344 | 23·28 | 5 | ·34 |
| 78 | Surat City, Municipal ... | 108,697 | 36,232 | 2 | P. 1,944<br>R. 38 | 1,781<br>1 | 3,725<br>39 | 1,882 | 3,727 | 2,654 | 995 | 3,654 | 39 | 6 | 98·09 | 15·38 | 33·68 | 3,093 | 28·46 | 44 | ·41 |
| 79 | In the 8 Rural Circles, Local Fund. | 526,513 | 318 | 9 | P. 8,278<br>R. 177 | 8,165<br>21 | 16,443<br>198 | 1,849 | 16,468 | 13,354 | 2,632 | 16,023 | 198 | 141 | 97·45 | 71·21 | 30·70 | 15,986 | 30·36 | 97 | ·19 |
| | Total ... | 649,989 | 391 | 11 | P. 10,333<br>R. 216 | 10,048<br>22 | 20,381<br>238 | 1,874 | 20,408 | 16,132 | 3,688 | 19,865 | 238 | 147 | 97·47 | 61·76 | 30·79 | 19,423 | 29·88 | 146 | ·23 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BROACH COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 80 | Broach City, Municipal ... | 40,168 | 23,910 | 1 | P. 375<br>R. 85 | 397<br>... | 772<br>85 | 857 | 772 | 717 | 33 | 750 | 85 | 80 | 97·15 | 94·12 | 20·67 | 1,556 | 38·74 | 19 | ·47 |
| 81 | Jambusar Town, Local Fund ... | 12,072 | 22,356 | ... | P. 208<br>R. 1 | 188<br>... | 396<br>1 | 397 | 397 | 288 | 95 | 387 | 1 | 1 | 97·73 | 100· | 32·14 | 361 | 29·90 | ... | ... |
| 82 | In the 6 Rural Circles, Local Fund ... ... ... ... | 289,250 | 199 | 5 | P. 4,463<br>R. 257 | 4,414<br>122 | 8,877<br>379 | 1,851 | 8,885 | 7,623 | 1,112 | 8,739 | 379 | 114 | 98·45 | 30·08 | 30·61 | 8,798 | 30·42 | 76 | ·26 |
| | Total ... | 341,490 | 235 | 6 | P. 5,046<br>R. 343 | 4,999<br>122 | 10,045<br>465 | 1,752 | 10,054 | 8,628 | 1,240 | 9,876 | 465 | 195 | 98·32 | 41·94 | 29·49 | 10,715 | 31·38 | 95 | ·28 |
| | KAIRA COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 83 | Kapadvanj Town, Local Fund . | 14,805 | 64,370 | ... | P. 266<br>R. 3 | 250<br>2 | 516<br>5 | 521 | 518 | 440 | 75 | 516 | 5 | 4 | 100· | 80· | 35·12 | 516 | 34·85 | 1 | ·07 |
| 84 | Nadiád Town, Municipal ... | 29,048 | 88,024 | 1 | P. 550<br>R. 14 | 435<br>3 | 985<br>17 | 1,002 | 986 | 892 | 79 | 971 | 17 | 7 | 98·58 | 41·18 | 33·67 | 948 | 32·64 | 9 | ·31 |
| 85 | Borsad Town, Local Fund ... | 12,159 | 63,995 | ... | P. 270<br>R. 3 | 294<br>1 | 564<br>4 | 568 | 566 | 481 | 76 | 558 | 4 | 1 | 98·94 | 25· | 45·97 | 499 | 41·04 | ... | ... |
| 86 | Kaira do. do. ... | 10,101 | 36,075 | ... | P. 158<br>R. 2 | 149<br>... | 307<br>2 | 309 | 307 | 252 | 52 | 305 | 2 | 2 | 99·35 | 100· | 30·39 | 270 | 26·73 | 1 | ·09 |
| 87 | In the 7 Rural Circles, Local Fund ... ... ... ... | 805,476 | 501 | 10 | P. 12,465<br>R. 673 | 10,385<br>39 | 22,850<br>712 | 2,356 | 22,873 | 20,105 | 2,494 | 22,621 | 712 | 274 | 99· | 38·48 | 28·42 | 23,227 | 28·84 | 49 | ·06 |
| | Total ... | 871,589 | 542 | 11 | P. 13,709<br>R. 695 | 11,513<br>45 | 25,222<br>740 | 2,360 | 25,250 | 22,170 | 2,776 | 24,971 | 740 | 288 | 99· | 38·92 | 28·98 | 25,460 | 29·21 | 60 | ·07 |
| | PANCH MAHA'LS COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 88 | Godhra Town, Local Fund ... | 14,691 | 86,418 | ... | P. 160<br>R. 6 | 154<br>... | 314<br>6 | 320 | 314 | 249 | 60 | 310 | 6 | 5 | 98·73 | 83·33 | 21·44 | 551 | 37·52 | 32 | 2·18 |
| 89 | Dohad do. do. ... | 12,935 | 76,088 | ... | P. 198<br>R. 4 | 190<br>... | 388<br>4 | 392 | 389 | 318 | 58 | 376 | 4 | 1 | 96·91 | 25· | 29·15 | 347 | 26·83 | 5 | ·39 |
| 90 | In the 5 Rural Circles, Local Fund ... ... ... ... | 285,791 | 177 | 7 | P. 5,052<br>R. 69 | 4,764<br>21 | 9,816<br>90 | 1,415 | 9,828 | 8,588 | 1,025 | 9,637 | 90 | 52 | 98·18 | 57·77 | 33·90 | 10,541 | 36·89 | 27 | ·10 |
| | Total ... | 313,417 | 194 | 7 | P. 5,410<br>R. 79 | 5,108<br>21 | 10,518<br>100 | 1,517 | 10,531 | 9,155 | 1,143 | 10,323 | 100 | 58 | 98·15 | 58· | 33·12 | 11,439 | 36·49 | 64 | ·20 |
| | AHMEDABAD COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 91 | Dholka Town, Local Fund ... | 16,494 | 21,992 | ... | P. 334<br>R. ... | 277<br>... | 611<br>... | 611 | 611 | 551 | 11 | 562 | ... | ... | 91·98 | ... | 34·07 | 574 | 34·80 | 3 | ·18 |
| 92 | Ahmedabad City, Municipal ... | 144,451 | 65,660 | 3 | P. 2,919<br>R. 150 | 2,787<br>4 | 5,706<br>154 | 1,953 | 5,717 | 4,447 | 440 | 4,888 | 154 | 69 | 85·66 | 44·80 | 34·32 | 4,577 | 31·69 | 18 | ·12 |
| 93 | Ahmedabad Cantonment ... | 3,961 | ... | ... | P. 15<br>R. ... | 28<br>... | 43<br>... | 43 | 43 | 28 | 11 | 39 | ... | ... | 90·70 | ... | 9·85 | 33 | 8·33 | ... | ... |
| 94 | Gogha Town, Local Fund ... | 6,638 | 8,851 | ... | P. 101<br>R. ... | 94<br>... | 195<br>... | 195 | 195 | 158 | 15 | 174 | ... | ... | 89·23 | ... | 26·21 | 237 | 35·70 | 1 | ·15 |
| 95 | Viramgám Town do. ... | 23,209 | 38,048 | ... | P. 290<br>R. ... | 265<br>1 | 555<br>1 | 556 | 557 | 533 | 19 | 552 | 1 | 1 | 99·46 | 100· | 23·83 | 652 | 28·09 | 1 | ·04 |
| 96 | In the 7 Rural Circles, Local Fund ... ... ... ... | 726,959 | 190 | 12 | P. 11,190<br>R. 659 | 10,594<br>125 | 21,784<br>784 | 1,881 | 21,813 | 19,189 | 1,907 | 21,118 | 784 | 457 | 96·94 | 58·29 | 29·68 | 21,683 | 29·83 | 61 | ·08 |
| | Total ... | 921,712 | 241 | 15 | P. 14,849<br>R. 809 | 14,045<br>130 | 28,894<br>939 | 1,989 | 28,936 | 24,906 | 2,403 | 27,333 | 939 | 527 | 94·60 | 56·12 | 30·23 | 27,756 | 30·11 | 84 | ·09 |
| | NATIVE STATES— | | | | | | | | | | | | | | | | | | | |
| 97 | Rewa Kántha ... ... ... | 726,056 | 150 | 16 | P. 12,942<br>R. 213 | 12,394<br>81 | 25,336<br>294 | 1,602 | 25,382 | 16,766 | 7,551 | 24,837 | 294 | 240 | 98·03 | 81·63 | 34·57 | 24,153 | 33·27 | ... | ... |
| 98 | Mahi Kántha ... ... ... | 279,434 | 172 | 4 | P. 3,771<br>R. 47 | 3,529<br>18 | 7,300<br>65 | 1,841 | 7,313 | 6,235 | 904 | 7,142 | 65 | 48 | 97·84 | 73·85 | 25·73 | 6,329 | 22·65 | ... | ... |
| 99 | Surat Agency . Dharampor . | 120,498 | 152 | 3 | P. 1,987<br>R. 23 | 1,939<br>21 | 3,926<br>44 | 1,323 | 3,926 | 2,601 | 1,140 | 3,830 | 44 | 36 | 97·56 | 81·52 | 32·08 | 4,433 | 36·78 | ... | ... |
| 100 | Surat Agency . Bánsda ... | 41,373 | 192 | 1 | P. 693<br>R. ... | 608<br>1 | 1,301<br>1 | 1,302 | 1,301 | 1,153 | 136 | 1,297 | 1 | 1 | 99·69 | 100· | 31·37 | 1,578 | 38·14 | ... | ... |
| 101 | Surat Agency . Sachin, Local Fund ... | 19,337 | 460 | ... | P. 275<br>R. 14 | 262<br>4 | 537<br>18 | 555 | 537 | 424 | 105 | 530 | 18 | 6 | 98·70 | 33·33 | 27·72 | 525 | 27·15 | ... | ... |
| 102 | Jambughoda, Local Fund ... | 7,450 | 52 | ... | P. 124<br>R. 1 | 114<br>... | 238<br>1 | 239 | 238 | 206 | 25 | 231 | 1 | 1 | 97·06 | 100· | 31·14 | 319 | 42·82 | ... | ... |

## Statement No. I, showing Particulars of Vaccination, &c.—*continued.*

| Number. | Circles and Districts. | Population of Districts according to Census of 1891. | Average population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. | Primary Vaccinations. | | | | Revaccination. | | Percentage of Successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Total. | Successful. | | | Total. | Successful | Primary. | Revaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all ages. | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | TOTAL BY ESTABLISHMENT IN GUJARA'T REGISTRATION DISTRICT. | | | | Males. | Females. | Total. | | | | | | | | | | | | | | |
| | Municipal ... ... .. | 322,364 | 44,711 | 7 | P. 5,788<br>R. 287 | 5,400<br>8 | 11,188<br>295 | 1,640 | 11,202 | 8,710 | 1,547 | 10,263 | 295 | 162 | 91·73 | 54·91 | 32·40 | 10,174 | 31·56 | 90 | ·28 |
| | Local Fund ... ... ... | 2,798,659 | 275 | 43 | P. 43,943<br>R. 1,870 | 40,661<br>336 | 84,604<br>2,206 | 2,019 | 84,709 | 72,883 | 9,822 | 82,827 | 2,206 | 1,060 | 97·90 | 48·05 | 29·62 | 85,430 | 30·53 | 359 | ·13 |
| | Native State ... ... ... | 1,167,361 | 156 | 24 | P. 19,393<br>R. 253 | 18,470<br>121 | 37,863<br>404 | 1,594 | 37,922 | 26,755 | 9,731 | 37,106 | 404 | 325 | 98·00 | 80·15 | 32·06 | 36,493 | 31·27 | ... | ... |
| | Cantonment ... ... ... | 3,961 | ... | ... | P. 15<br>R. ... | 28<br>... | 43<br>... | 43 | 43 | 28 | 11 | 39 | ... | ... | 90·70 | ... | 9·85 | 33 | 8·33 | ... | ... |
| | Grand Total ... | 4,292,345 | 232 | 74 | P. 69,139<br>R. 2,440 | 64,559<br>465 | 133,698<br>2,905 | 1,846 | 133,876 | 108,376 | 21,111 | 130,235 | 2,905 | 1,547 | 97·41 | 53·25 | 30·70 | 132,130 | 30·78 | 449 | ·15 |
| | THE SIND REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | | |
| | KARÁCHI COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 103 | Karáchi Town, Municipal ... | 105,199 | 12,819 | 2 | P. 2,528<br>R. 242 | 2,278<br>44 | 4,806<br>286 | 2,546 | 4,852 | 2,267 | 1,099 | 4,752 | 289 | 192 | 98·88 | 67·13 | 47·00 | 5,327 | 50·64 | 19 | ·18 |
| 104 | Tatta do. do. ... | 8,969 | ... | 1 | P. 210<br>R. 58 | 181<br>7 | 391<br>65 | 456 | 391 | 219 | 80 | 316 | 65 | 19 | 80·82 | 29·23 | 37·35 | 287 | 32·00 | ... | ... |
| 105 | In the 14 Rural Circles, Local Fund ... ... ... | 450,712 | 32 | 14 | P. 7,642<br>R. 1,066 | 6,708<br>584 | 14,350<br>1,650 | 1,143 | 14,388 | 7,587 | 4,166 | 12,211 | 1,650 | 918 | 85·09 | 55·64 | 29·13 | 14,257 | 31·63 | 32 | ·07 |
| | Total .. | 564,880 | 40 | 17 | P. 10,380<br>R. 1,366 | 9,167<br>635 | 19,547<br>2,001 | 1,268 | 19,631 | 10,073 | 5,345 | 17,279 | 2,004 | 1,129 | 88·40 | 56·42 | 32·59 | 19,871 | 35·18 | 51 | ·09 |
| | HYDERABAD COLLECTORATE— | | | | | | | | | | | | | | | | | | | | |
| 106 | Hyderabad Town, Municipal ... | 54,569 | ... | 1 | P. 888<br>R. 262 | 765<br>7 | 1,653<br>269 | 1,922 | 1,653 | 1,346 | 292 | 1,644 | 269 | 204 | 99·46 | 75·84 | 33·87 | 2,009 | 36·82 | 27 | ·47 |
| 107 | In the 12 Rural Circles, Local Fund ... ... ... | 829,865 | 96 | 12 | P. 9,743<br>R. 1,153 | 8,316<br>468 | 18,059<br>1,621 | 1,640 | 18,070 | 12,407 | 3,945 | 16,437 | 1,621 | 1,030 | 91·02 | 63·54 | 21·05 | 19,828 | 23·89 | 45 | ·05 |
| | Total ... | 884,434 | 104 | 13 | P. 10,631<br>R. 1,415 | 9,081<br>475 | 19,712<br>1,890 | 1,661 | 19,723 | 13,753 | 4,237 | 18,081 | 1,890 | 1,234 | 91·73 | 65·29 | 21·83 | 21,837 | 24·79 | 72 | ·08 |
| | THAR AND PÁRKAR DISTRICT. | | | | | | | | | | | | | | | | | | | | |
| 108 | Umarkot Town, Local Fund ... | 3,702 | ... | 8 | P. 25<br>R. 1 | 23<br>2 | 48<br>3 | 1,412 | 50 | 34 | 9 | 43 | 3 | 1 | 89·58 | 33·33 | 11·89 | 73 | 19·72 | 3 | ·81 |
| 109 | In the 8 Rural Circles, Local Fund ... ... ... | 328,713 | ... | | P. 5,298<br>R. 688 | 4,492<br>766 | 9,790<br>1,454 | | 9,818 | 5,884 | 2,838 | 8,853 | 1,454 | 989 | 90·43 | 68·02 | 29·94 | 11,363 | 34·57 | 38 | ·12 |
| | Total ... | 332,415 | 25 | 8 | P. 5,323<br>R. 689 | 4,515<br>768 | 9,838<br>1,457 | 1,412 | 9,868 | 5,918 | 2,847 | 8,896 | 1,457 | 990 | 90·42 | 67·95 | 29·74 | 11,436 | 34·40 | 41 | ·12 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SHIKÁRPUR COLLECTORATE— | | | | | | | | | | | | | | | | | | | |
| 110 | Shikárpur Town, Municipal ... | 42,004 | 41,421 | 1 | P. 686<br>R. 73 | 598<br>... | 1,284<br>73 | 1,357 | 1,284 | 975 | 170 | 1,152 | 73 | 40 | 89·72 | 54·79 | 28·38 | 1,173 | 27·93 | 15 | ·36 |
| 111 | Sukkur do. do. ... | 29,302 | ... | 1 | P. 849<br>R. 49 | 594<br>376 | 1,443<br>425 | 1,868 | 1,443 | 1,151 | 212 | 1,363 | 425 | 356 | 94·46 | 83·76 | 58·66 | 1,895 | 64·67 | 5 | ·17 |
| 112 | Lárkhána do. do. ... | 12,019 | ... | 1 | P. 289<br>R. 314 | 253<br>46 | 542<br>360 | 902 | 542 | 422 | 96 | 522 | 360 | 228 | 96·31 | 63·34 | 62·40 | 605 | 50·34 | 4 | ·33 |
| 113 | Rohri do. do. ... | 8,786 | ... | 1 | P. 230<br>R. 4 | 183<br>22 | 413<br>26 | 439 | 414 | 304 | 15 | 319 | 26 | 14 | 77·24 | 58·85 | 37·90 | 445 | 50·65 | ... | ... |
| 114 | In the 14 Rural Circles, Local Fund ... ... ... ... | 823,386 | 89 | 16 | P. 13,939<br>R. 1,863 | 12,269<br>2,749 | 26,208<br>4,612 | 1,926 | 26,225 | 21,618 | 2,709 | 24,438 | 4,612 | 2,488 | 93·25 | 53·94 | 33·70 | 27,305 | 33·16 | 43 | ·05 |
| | Total ... | 915,497 | 99 | 20 | P. 15,993<br>R. 2,303 | 13,897<br>3,193 | 29,890<br>5,496 | 1,769 | 29,908 | 24,470 | 3,202 | 27,794 | 5,496 | 3,126 | 92·99 | 56·88 | 33·77 | 31,423 | 34·32 | 67 | ·07 |
| | UPPER SIND FRONTIER— | | | | | | | | | | | | | | | | | | | |
| 115 | Jacobabad Town and Cantonment, Local Fund ... ... | 12,396 | ... | 4 | P. 72<br>R. 20 | 51<br>2 | 123<br>22 | 1,752 | 123 | 92 | 14 | 106 | 22 | 9 | 86·18 | 40·91 | 9·28 | 241 | 19·44 | ... | ... |
| 116 | In the 4 Rural Circles, Local Fund ... ... ... ... | 162,152 | ... | | P. 2,990<br>R. 347 | 2,625<br>901 | 5,615<br>1,248 | | 5,621 | 3,691 | 1,093 | 4,811 | 1,248 | 748 | 85·68 | 59·94 | 34·28 | 5,176 | 31·92 | 14 | ·09 |
| | Total ... | 174,548 | 61 | 4 | P. 3,062<br>R. 367 | 2,676<br>903 | 5,738<br>1,270 | 1,752 | 5,744 | 3,783 | 1,107 | 4,917 | 1,270 | 757 | 85·69 | 59·61 | 32·51 | 5,417 | 31·03 | 14 | ·08 |
| | NATIVE STATE— | | | | | | | | | | | | | | | | | | | |
| 117 | Khairpur State ... ... ... | 131,937 | 22 | 4 | P. 2,724<br>R. 49 | 2,352<br>24 | 5,076<br>73 | 1,287 | 5,091 | 3,221 | 1,480 | 4,801 | 73 | 59 | 94·58 | 80·82 | 36·84 | 4,555 | 34·52 | ... | ... |
| | TOTAL BY ESTABLISHMENT IN THE SIND REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | | | | |
| | Municipal ... ... ... ... | 253,844 | 148 | 8 | P. 5,680<br>R. 1,002 | 4,852<br>502 | 10,532<br>1,504 | 1,504 | 10,579 | 6,684 | 1,964 | 10,068 | 1,507 | 1,043 | 95·58 | 70·01 | 43·81 | 11,741 | 46·25 | 69 | ·28 |
| | Local Fund ... ... ... ... | 2,617,930 | 55 | 54 | P. 39,709<br>R. 5,138 | 34,484<br>5,472 | 74,193<br>10,610 | 1,570 | 74,295 | 51,313 | 14,774 | 66,899 | 10,610 | 6,183 | 90·24 | 58·27 | 27·92 | 78,238 | 29·89 | 175 | ·07 |
| | Native State... ... ... ... | 131,937 | 22 | 4 | P. 2,724<br>R. 49 | 2,352<br>24 | 5,076<br>73 | 1,287 | 5,091 | 3,221 | 1,480 | 4,801 | 73 | 59 | 94·58 | 80·82 | 36·84 | 4,555 | 34·52 | ... | ... |
| | Grand Total ... | 3,003,711 | 55 | 66 | P. 48,113<br>R. 6,189 | 41,688<br>5,998 | 89,801<br>12,187 | 1,545 | 89,965 | 61,218 | 18,218 | 81,768 | 12,190 | 7,285 | 91·05 | 59·96 | 29·65 | 94,534 | 31·47 | 244 | ·08 |
| | ADEN. | | | | | | | | | | | | | | | | | | | |
| 118 | Aden Municipality ... ... ... | 44,079 | 3,800 | 3 | P. 4,745<br>R. 145 | 762<br>36 | 5,507<br>181 | 1,896 | 5,507 | 105 | 432 | 2,861 | 181 | 77 | 51·95 | 42·54 | 66·65 | 1,229 | 27·88 | ... | ... |

## Statement No. I, showing Particulars of Vaccination, &c.—*concluded.*

| Number. | Circles and Districts. | | Population of Districts according to Census of 1891. | Average population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. | Primary Vaccinations. | | | | Revaccination. | | Percentage of Successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Revaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all ages. | | | | | | | | | |
| 1 | 2 | | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | | BY ESTABLISHMENTS. | | | | Males. | Females. | Total. | | | | | | | | | | | | | | |
| | TOTAL FOR THE BOMBAY PRESIDENCY. | Municipal ... ... ... | 2,084,820 | 8,626 | 48 | P. 34,501<br>R. 6,872 | 28,117<br>943 | 62,618<br>7,815 | 1,467 | 62,767 | 39,561 | 11,372 | 55,841 | 7,818 | 3,678 | 89·18 | 47·06 | 28·55 | 62,848 | 30·15 | 663 | ·32 |
| | | Cantonment ... ... | 57,869 | 5,510 | 2 | P. 1,015<br>R. 1,064 | 955<br>110 | 1,970<br>1,174 | 1,572 | 1,977 | 1,114 | 509 | 1,671 | 1,177 | 416 | 84·82 | 35·43 | 36·06 | 2,399 | 41·46 | ... | ... |
| | | Local Fund ... ... | 16,785,221 | 134 | 307 | P. 234,935<br>R. 12,087 | 222,255<br>10,374 | 457,190<br>29,461 | 1,585 | 457,597 | 340,410 | 79,262 | 423,905 | 29,462 | 17,154 | 92·72 | 58·23 | 26·28 | 513,484 | 30·59 | 2,940 | ·18 |
| | | Native States ... ... | 3,684,310 | ... | 77 | P. 50,542<br>R. 6,887 | 48,005<br>2,088 | 98,547<br>8,975 | 1,396 | 98,756 | 70,028 | 23,334 | 94,630 | 8,975 | 5,772 | 96·03 | 64·31 | 27·25 | 116,221 | 31·54 | ... | ... |
| | | In British Territory ... | 18,927,910 | ... | 357 | P. 270,451<br>R. 27,023 | 251,327<br>11,427 | 521,778<br>38,450 | 1,569 | 522,341 | 381,085 | 91,143 | 481,417 | 38,457 | 21,248 | 92·26 | 55·26 | 26·56 | 578,731 | 30·58 | 3,603 | ·19 |
| | | In Native State Territory | 3,684,310 | ... | 77 | P. 50,542<br>R. 6,887 | 48,005<br>2,088 | 98,547<br>8,975 | 1,396 | 98,756 | 70,028 | 23,334 | 94,630 | 8,975 | 5,772 | 96·03 | 64·31 | 27·25 | 116,221 | 31·54 | ... | ... |
| | | GRAND TOTAL ... | 22,612,220 | ... | 434 | P. 320,993<br>R. 33,910 | 2,99,332<br>13,515 | 620,325<br>47,425 | 1,539 | 621,097 | 451,113 | 114,477 | 576,047 | 47,432 | 27,020 | 92·86 | 56·97 | 26·67 | 694,952 | 30·73 | 3,603 | ·16 |

# STATEMENT II.

A.—VACCINE

Statement No. II showing the Cost of the Department

| No. | Circles and Districts. | Expenditure. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | European supervising officers. | Pay. | Inspectors of Sanitation and Vaccination. | Pay. | Vaccinators. | Pay. | Clerks. | Pay. | Peons, &c. | Pay. | Total Pay of Establishment. | |
| | THE WESTERN REGISTRATION DISTRICT. | | Rs. a. p. | | Rs. a. p. | | Rs. a. p. | | Rs. a. p. | | Rs. a. p. | Rs. a. p. | |
| | Administrative Charges... | 1 | 5,115 15 3 | 8 | 6,158 11 4 | ... | ..... | 2 | 840 0 0 | 12 | 1,175 3 7 | 13,289 14 2 | |
| 1 | Khándesh ... ... ... | ... | ..... | ... | ..... | 33 | 6,395 6 3 | ... | ..... | 30 | 2,557 2 2 | 8,952 8 5 | |
| 2 | Násik ... ... ... | ... | ..... | ... | ..... | 21 | 3,911 3 0 | ... | ..... | 18 | 1,507 15 0 | 5,419 2 0 | |
| 3 | Thána ... ... ... | ... | ..... | ... | ..... | 21 | 4,049 11 9 | ... | ..... | 19 | 1,594 10 4 | 5,644 6 1 | |
| 4 | Kolába ... ... ... | ... | ..... | ... | ..... | 17 | 3,282 11 2 | ... | ..... | 16 | 1,365 15 6 | 4,648 10 8 | |
| | Total ... | 1 | 5,115 15 3 | 8 | 6,158 11 4 | 92 | 17,639 0 2 | 2 | 840 0 0 | 95 | 8,200 14 7 | 37,954 9 4 | |
| | THE PRESIDENCY CIRCLE. | | | | | | | | | | | | |
| 5 | Bombay City ... ... | 1 | 4,560 0 0 | 2 | 1,140 0 0 | 8 | 2,161 11 0 | 5 | 2,119 5 3 | 20 | 2,954 9 6 | 12,935 9 9 | |
| | THE CENTRAL REGISTRATION DISTRICT. | | | | | | | | | | | | |
| | Administrative Charges... | 1 | 10,442 11 11 | 6 | 4,740 0 0 | ... | ..... | 2 | 840 0 0 | 10 | 978 12 11 | 17,001 8 10 | |
| 6 | Ahmednagar ... ... | ... | ..... | ... | ..... | 16 | 3,186 13 6 | ... | ..... | 15 | 1,246 1 4 | 4,432 14 10 | |
| 7 | Poona ... ... ... | ... | ..... | ... | ..... | 20 | 4,185 3 2 | ... | ..... | 19 | 1,626 14 2 | 5,812 1 4 | |
| 8 | Sholápur ... ... ... | ... | ..... | ... | ..... | 16 | 3,275 15 6 | ... | ..... | 15 | 1,243 10 2 | 4,519 9 8 | |
| 9 | Sátára ... ... ... | ... | ..... | ... | ..... | 27 | 5,067 11 0 | ... | ..... | 25 | 1,983 0 10 | 7,050 11 10 | |
| 10 | Ratnágiri ... ... ... | ... | ..... | ... | ..... | 17 | 3,384 3 4 | ... | ..... | 15 | 1,304 13 2 | 4,689 0 6 | |
| 11 | Sávantvádi State ... ... | ... | ..... | 1 | 480 0 0 | 5 | 858 0 0 | ... | ..... | 6 | 342 0 0 | 1,680 0 0 | |
| 12 | Phaltan do. ... ... | ... | ..... | 1 | 100 0 0 | 1 | 169 13 3 | ... | ..... | 1 | 59 8 0 | 329 5 3 | |
| | Total ... | 1 | 10,442 11 11 | 8 | 5,320 0 0 | 102 | 20,127 11 9 | 2 | 840 0 0 | 106 | 8,784 12 7 | 45,515 4 3 | |
| | THE SOUTHERN REGISTRATION DISTRICT. | | | | | | | | | | | | |
| | Administrative Charges... | 1 | 1,200 0 0 | 6 | 4,988 3 4 | ... | ..... | 2 | 840 0 0 | 10 | 1,015 8 0 | 8,043 11 4 | |
| 13 | Belgaum ... ... | ... | ..... | ... | ..... | 21 | 4,383 9 7 | ... | ..... | 19 | 1,576 0 0 | 5,959 9 7 | |
| 14 | Dhárwár ... ... | ... | ..... | ... | ..... | 25 | 3,782 6 2 | ... | ..... | 23 | 1,989 15 7 | 5,772 5 9 | |
| 15 | Bijápur ... ... | ... | ..... | ... | ..... | 14 | 2,764 0 11 | ... | ..... | 13 | 1,148 12 0 | 3,912 12 11 | |
| 16 | Kánara... ... ... | ... | ..... | ... | ..... | 18 | 3,477 2 9 | ... | ..... | 15 | 3,380 4 0 | 4,857 6 9 | |
| 17 | Kolhápur ... ... | ... | ..... | ... | 780 0 0 | 15 | 2,796 0 0 | 1 | 190 0 0 | 15 | 1,008 0 0 | 4,774 0 0 | |
| 18 | Southern Maratha Jághirs. | ... | ..... | 1 7 | 2,160 0 0 | 21 | 3,982 14 0 | 1 | 180 0 0 | 25 | 1,889 9 9 | 8,212 7 9 | |
| | Total ... | 1 | 1,200 0 0 | 14 | 7,928 3 4 | 114 | 21,186 1 5 | 4 | 1,210 0 0 | 120 | 10,008 1 4 | 41,532 6 1 | |
| | THE GUJARAT REGISTRATION DISTRICT. | | | | | | | | | | | | |
| | Administrative Charges... | 1 | 3,194 12 8 | 5 | 4,080 0 0 | ... | ..... | 2 | 853 5 2 | 9 | 864 0 0 | 8,992 1 10 | |
| 19 | Surat... ... ... ... | ... | ..... | ... | ..... | 16 | 3,159 6 2 | ... | ..... | 15 | 1,260 0 0 | 4,419 6 2 | |
| 20 | Broach ... ... ... | ... | ..... | ... | ..... | 7 | 1,400 10 1 | ... | ..... | 6 | 515 0 0 | 1915 10 1 | |
| 21 | Kaira ... ... ... | ... | ..... | ... | ..... | 12 | 2,465 11 10 | ... | ..... | 11 | 912 0 0 | 3,377 11 10 | |
| 22 | Panch Mahals ... ... | ... | ..... | ... | ..... | 8 | 1,536 15 6 | ... | ..... | 7 | 588 0 0 | 2,124 15 6 | |
| 23 | Ahmedabad ... ... | ... | ..... | ... | ..... | 16 | 3,382 12 2 | ... | ..... | 15 | 1,258 2 9 | 4,640 14 11 | |
| 24 | Mahi Kántha Agency ... | ... | ..... | 1 | 480 0 0 | 4 | 959 0 0 | ... | ..... | 5 | 432 0 0 | 1,871 0 0 | |
| 25 | Rewa Kántha ,, ... | ... | ..... | ... | ..... | 16 | 3,078 8 0 | ... | ..... | 16 | 1,177 6 7 | 4,255 14 7 | |
| | Total ... | 1 | 3,194 12 8 | 6 | 4,560 0 0 | 79 | 15,982 15 9 | 2 | 853 5 2 | 84 | 7,006 9 4 | 31,597 10 11 | |
| | THE SIND REGISTRATION DISTRICT. | | | | | | | | | | | | |
| | Administrative Charges... | 1 | 7,484 13 6 | 7 | 6,460 6 9 | ... | ..... | 2 | 840 0 0 | 10 | 981 6 7 | 15,766 10 10 | |
| 26 | Karáchi ... ... ... | ... | ..... | ... | ..... | 22 | 4,119 6 7 | ... | ..... | 21 | 2,119 4 1 | 6,238 10 8 | |
| 27 | Hyderabad ... ... ... | ... | ..... | ... | ..... | 14 | 2,970 0 8 | ... | ..... | 13 | 1,164 0 0 | 4,134 0 8 | |
| 28 | Thar and Párkar ... ... | ... | ..... | ... | ..... | 9 | 1,607 6 9 | ... | ..... | 8 | 742 15 7 | 2,350 6 4 | |
| 29 | Shikárpur ... ... ... | ... | ..... | ... | ..... | 21 | 4,579 6 3 | ... | ..... | 21 | 1,662 4 6 | 6,241 10 9 | |
| 30 | Upper Sind Frontier ... | ... | ..... | ... | ..... | 5 | 789 11 4 | ... | ..... | 4 | 364 1 1 | 1,153 12 5 | |
| 31 | Native States ... ... | ... | ..... | ... | ..... | 4 | 1,429 14 6 | ... | ..... | 4 | 355 11 8 | 1,785 10 2 | |
| | Total | 1 | 7,484 13 6 | 7 | 6,460 6 9 | 75 | 15,495 14 1 | 2 | 840 0 0 | 81 | 7,389 11 6 | 37,670 13 10 | |
| 32 | Aden... ... ... ... | ... | ..... | ... | ..... | 3 | 1,077 5 4 | ... | ..... | 1 | 179 8 9 | 1,256 14 1 | |
| | TOTAL OF PRESIDENCY ... | 6 | 31,998 5 4 | 45 | 31,567 5 5 | 473 | 93,670 11 6 | 17 | 6,702 10 5 | 507 | 44,524 3 7 | 2,08,463 4 3 | |

## DEPARTMENT.

*in the Bombay Presidency during the year 1898-99.*

| Travelling Allowances. | Contingencies. | Total Cost. | Paid from: Provincial Funds. | Paid from: Local Funds. | Paid from: Municipalities. | Paid from: Native States. | Total. | Number of all successful vaccinations and re-vaccinations. | Average cost of each successful case. |
|---|---|---|---|---|---|---|---|---|---|
| Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | | Rs. a. p. |
| 3,022 10 1 | 733 14 9 | 17,046 7 0 | 17,046 7 0 | ..... | ..... | ..... | 17,046 7 0 | ... | ..... |
| 186 10 0 | 847 2 11 | 9,986 5 4 | 433 12 9 | 9,552 8 7 | ..... | ..... | 9,986 5 4 | 38,329 | 0 4 2 |
| 83 0 3 | 470 2 4 | 5,972 4 7 | ..... | 5,209 11 4 | 762 9 3 | ..... | 5,972 4 7 | 19,378 | 0 4 9 |
| 32 15 0 | 529 2 8 | 6,206 7 9 | ..... | 4,839 4 3 | 932 13 0 | 434 6 6 | 6,206 7 9 | 21,798 | 0 4 6 |
| 33 3 6 | 466 9 4 | 5,148 7 6 | ..... | 4,391 3 5 | ..... | 757 4 1 | 5,148 7 6 | 19,656 | 0 4 2 |
| 3,358 6 10 | 3,047 0 0 | 44,360 0 2 | 17,480 3 9 | 23,992 11 7 | 1,695 6 3 | 1,191 10 7 | 44,360 0 2 | 99,661 | 0 7 1 |
| 360 0 0 | 6,517 14 1 | 19,813 7 10 | 4,560 0 0 | ..... | 15,253 7 10 | ..... | 19,813 7 10 | 12,637 | 1 9 1 |
| 3,432 11 6 | 942 2 0 | 21,376 6 4 | 21,376 6 4 | ..... | ..... | ..... | 21,376 6 4 | ... | ..... |
| 14 11 0 | 638 3 6 | 5,085 13 4 | ..... | 4,379 1 10 | 706 11 6 | ..... | 5,085 13 4 | 28,685 | 0 2 10 |
| 16 3 6 | 1,337 6 9 | 7,165 11 7 | ..... | 4,800 6 9 | 2,365 4 10 | ..... | 7,165 11 7 | 27,144 | 0 4 3 |
| 13 1 0 | 475 10 2 | 5,008 4 10 | ..... | 3,551 4 4 | 1,213 2 0 | 243 14 6 | 5,008 4 10 | 22,082 | 0 3 6 |
| 45 1 0 | 849 14 11 | 7,945 11 9 | ..... | 6,076 8 3 | 636 6 6 | 1,232 13 0 | 7,945 11 9 | 32,657 | 0 3 11 |
| 94 0 6 | 353 8 9 | 5,136 9 9 | ..... | 5,009 11 9 | 126 14 0 | ..... | 5,136 9 9 | 27,310 | 0 3 0 |
| ..... | 190 0 0 | 1,870 0 0 | ..... | ..... | ..... | 1,870 0 0 | 1,870 0 0 | 4,922 | 0 6 1 |
| 15 0 0 | 20 8 6 | 364 13 9 | ..... | ..... | ..... | 364 13 9 | 364 13 9 | 1,937 | 0 3 0 |
| 3,630 12 6 | 4,807 6 7 | 53,953 7 4 | 21,376 6 4 | 23,817 0 11 | 5,048 6 10 | 3,711 9 3 | 53,953 7 4 | 145,337 | 0 5 11 |
| 1,977 4 1 | 568 6 2 | 10,589 5 7 | 10,589 5 7 | ..... | ..... | ..... | 10,589 5 7 | ... | ..... |
| 180 7 3 | 994 12 2 | 7,134 13 0 | ..... | 6,045 11 1 | 1,089 1 11 | ..... | 7,134 13 0 | 25,120 | 0 4 7 |
| 42 0 9 | 1,597 3 6 | 7,411 10 0 | ..... | 5,595 2 8 | 1,561 14 7 | 254 8 9 | 7,411 10 0 | 19,747 | 0 6 0 |
| 568 13 1 | 446 13 3 | 4,928 7 3 | ..... | 4,627 5 6 | 301 1 9 | ..... | 4,928 7 3 | 23,587 | 0 3 4 |
| 57 9 0 | 507 10 11 | 5,422 10 8 | ..... | 5,256 13 5 | 135 13 3 | ..... | 5,422 10 8 | 12,532 | 0 6 11 |
| 517 11 0 | 775 12 9 | 6,067 7 9 | ..... | ..... | ..... | 6,067 7 9 | 6,067 7 9 | 23,946 | 0 4 1 |
| 930 4 4 | 703 3 8 | 9,845 15 9 | ..... | ..... | ..... | 9,845 15 9 | 9,845 15 9 | 16,727 | 0 9 5 |
| 4,274 1 6 | 5,593 14 5 | 51,400 6 0 | 10,589 5 7 | 21,555 0 8 | 3,087 15 6 | 16,168 0 3 | 51,400 6 0 | 121,659 | 0 6 9 |
| 2,275 4 6 | 783 13 10 | 12,051 4 2 | 12,051 4 2 | ..... | ..... | ..... | 12,051 4 2 | ... | ..... |
| 28 4 3 | 325 9 0 | 4,773 3 5 | ..... | 2,644 12 2 | 902 3 6 | 1,226 3 9 | 4,773 3 5 | 25,712 | 0 3 0 |
| 25 1 9 | 166 12 3 | 2,107 8 1 | ..... | 1,601 15 7 | 505 8 6 | ..... | 2,107 8 1 | 10,071 | 0 3 4 |
| 10 10 3 | 273 14 6 | 3,662 4 7 | ..... | 2,930 9 1 | 731 11 6 | ..... | 3,662 4 7 | 25,259 | 0 2 4 |
| 28 8 10 | 175 4 7 | 2,328 12 11 | ..... | 2,042 14 11 | 285 14 0 | ..... | 2,328 12 11 | 10,613 | 0 3 6 |
| 55 13 3 | 409 1 2 | 5,105 13 4 | ..... | 3,600 3 11 | 1,505 9 5 | ..... | 5,105 13 4 | 27,860 | 0 2 11 |
| 120 0 0 | 103 4 6 | 2,094 4 6 | ..... | ..... | ..... | 2,094 4 6 | 2,094 4 6 | 7,190 | 0 4 8 |
| ..... | 281 8 5 | 4,537 7 0 | ..... | ..... | ..... | 4,537 7 0 | 4,537 7 0 | 25,077 | 0 2 11 |
| 2,543 10 10 | 2,519 4 3 | 36,660 10 0 | 12,051 4 2 | 12,820 7 8 | 3,030 14 11 | 7,857 15 3 | 36,660 10 0 | 131,782 | 0 4 5 |
| 3,065 8 9 | 566 4 2 | 19,398 7 9 | 17,420 5 8 | ..... | 1,978 2 1 | ..... | 19,398 7 9 | ... | ..... |
| 1,091 12 0 | 1,720 0 2 | 9,050 6 10 | ..... | 5,552 6 9 | 3,498 0 1 | ..... | 9,050 6 10 | 18,408 | 0 7 10 |
| 823 12 10 | 397 5 2 | 5,355 2 8 | ..... | 4,869 7 1 | 485 11 7 | ..... | 5,355 2 8 | 19,315 | 0 4 5 |
| 560 5 1 | 262 8 8 | 3,173 4 1 | ..... | 3,173 4 1 | ..... | ..... | 3,173 4 1 | 9,886 | 0 5 2 |
| 1,067 11 8 | 551 15 2 | 7,861 5 7 | ..... | 6,406 7 11 | 1,454 13 8 | ..... | 7,861 5 7 | 30,920 | 0 4 1 |
| 282 6 6 | 127 7 6 | 1,563 10 5 | ..... | 1,563 10 5 | ..... | ..... | 1,563 10 5 | 5,674 | 0 4 5 |
| 39 13 3 | 31 2 7 | 1,856 10 0 | ..... | ..... | ..... | 1,856 10 0 | 1,856 10 0 | 4,860 | 0 6 1 |
| 6,931 6 1 | 3,656 11 5 | 48,258 15 4 | 17,420 5 8 | 21,565 4 3 | 7,416 11 5 | 1,856 10 0 | 48,258 15 4 | 89,053 | 0 8 8 |
| ..... | 105 1 8 | 1,361 15 9 | ..... | ..... | 1,361 15 9 | ..... | 1,261 15 9 | 2,938 | 0 7 5 |
| 21,098 5 9 | 26,247 4 5 | 255,808 14 5 | 83,477 9 6 | 103,750 9 1 | 37,794 14 6 | 30,785 13 4 | 255,808 14 5 | 603,067 | 0 6 9 |

# B.—DISPENSARY VACCINATION.

Statement No. III, showing Dispensary Vaccination in the Bombay Presidency during the year 1898-99.

| Districts. | | Number of Dispensaries in each District to which a Vaccinator is attached. | Average number of Vaccinators attached to Dispensaries during the season. | Total number of persons vaccinated. | | | Average number of persons vaccinated by each Vaccinator. | Primary Vaccination. | | | | Re-vaccination. | | Percentage of successful Cases. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. |
| | | | | | | | | | Under 1 year. | 1 and under 6. | Total of all Ages. | | | | |
| 1 | | 2 | 3 | 4 | | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| | | | | Males. | Females. | Total. | | | | | | | | | |
| Bombay City. | THE PRESIDENCY CIRCLE. | | | | | | | | | | | | | | |
| | Her Majesty's Common Jail | ... | ... | P ... | ... | ... | 42 | ... | ... | ... | ... | 42 | 22 | ... | 52·38 |
| | | | | R 42 | ... | 42 | | | | | | | | | |
| | Her Majesty's House of Correction | ... | ... | P ... | ... | ... | 249 | ... | ... | ... | ... | 249 | 56 | ... | 22·49 |
| | | | | R 249 | ... | 249 | | | | | | | | | |
| | Local Medical Practitioner. | ... | ... | P 2 | 2 | 4 | 4 | 4 | 4 | ... | 4 | ... | ... | 100· | ... |
| | | | | R ... | ... | ... | | | | | | | | | |
| | Bandra ... | ... | ... | P ... | ... | ... | | | | | | | | | |
| | | | | R ... | ... | ... | | | | | | | | | |
| | TOTAL ... | ... | ... | P 2 | 2 | 4 | 295 | 4 | 4 | ... | 4 | 291 | 78 | 100. | 26·80 |
| | | | | R 291 | ... | 291 | | | | | | | | | |
| Mahi Kántha States. Ahmedabad Collectorate. | THE GUJA'RAT REGISTRATION DISTRICT. | | | | | | | | | | | | | | |
| | Ahmedabad Central Prison ... | ... | ... | P 6 | 1 | 7 | 599 | 7 | 1 | ... | 5 | 592 | 564 | 71·43 | 95·27 |
| | | | | R 592 | ... | 592 | | | | | | | | | |
| | Sádra ... ... | ... | ... | P 76 | 71 | 147 | 158 | 147 | 140 | 5 | 146 | 11 | 11 | 99·32 | 100· |
| | | | | R 11 | ... | 11 | | | | | | | | | |
| | TOTAL ... | ... | ... | P 82 | 72 | 154 | 757 | 154 | 141 | 5 | 151 | 603 | 575 | 98·05 | 95·36 |
| | | | | R 603 | ... | 603 | | | | | | | | | |
| Karáchi Collectorate. | THE SIND REGISTRATION DISTRICT. | | | | | | | | | | | | | | |
| | Kotri ... ... | ... | ... | P 3 | 4 | 7 | 9 | 7 | 2 | 3 | 5 | 2 | ... | 71·43 | ... |
| | | | | R ... | 2 | 2 | | | | | | | | | |
| BUSHIRE ... ... ... | | ... | ... | P 59 | 68 | 127 | 136 | 127 | 96 | 31 | 127 | 9 | 1 | 100· | 11·11 |
| | | | | R 8 | 1 | 9 | | | | | | | | | |
| MUSKAT ... ... ... | | ... | ... | P 438 | 255 | 693 | 705 | 706 | 42 | 157 | 666 | 12 | 5 | 96·10 | 41·67 |
| | | | | R 9 | 3 | 12 | | | | | | | | | |
| TOTAL FOR THE | BRITISH TERRITORY ... | ... | ... | P 508 | 330 | 838 | 1,744 | 851 | 145 | 191 | 807 | 906 | 648 | 96·30 | 71·52 |
| | | | | R 900 | 6 | 906 | | | | | | | | | |
| | NATIVE STATE ... | ... | ... | P 76 | 71 | 147 | 158 | 147 | 140 | 5 | 146 | 11 | 11 | 99·32 | 100· |
| | | | | R 11 | ... | 11 | | | | | | | | | |
| GRAND TOTAL FOR THE BOMBAY PRESIDENCY ... ... | | ... | ... | P 584 | 401 | 985 | 1,902 | 998 | 285 | 196 | 953 | 917 | 659 | 96·75 | 71·86 |
| | | | | R 911 | 6 | 917 | | | | | | | | | |

*Comparative Statement No. IV, showing the Number of Persons primarily vaccinated and the Number of those Persons who were successfully vaccinated in each of the undermentioned official years.*

| Establishment. | Persons Primarily Vaccinated. | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. |
| | Years ending 31st March. | | | | | | | | | | | | | | | | | | | | | |
| | 1889. | | 1890. | | 1891. | | 1892.* | | 1893. | | 1894. | | 1895.† | | 1896. | | 1897. | | 1898. | | 1899. | |
| Government ... ... | 4,768 | 4,543 | 3,976 | 3,718 | 4,394 | 4,209 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Municipal ... ... | 67,019 | 62,963 | 67,306 | 63,367 | 67,512 | 64,221 | 72,637 | 69,258 | 72,842 | 69,076 | 68,511 | 63,970 | 68,823 | 64,130 | 72,305 | 65,980 | 65,560 | 58,350 | 59,877 | 53,875 | 62,618 | 55,841 |
| Local Fund ... ... | 500 656 | 476,642 | 509,306 | 482,945 | 494,661 | 467,764 | 528,112 | 497,894 | 517,682 | 486,177 | 517,195 | 484,219 | 524,306 | 488,575 | 534,077 | 497,062 | 544,558 | 502,035 | 500,170 | 456,796 | 457,190 | 423,905 |
| Cantonment ... ... | 2,282 | 2,197 | 2,044 | 2,006 | 1,852 | 1,815 | 1,901 | 1,830 | 2,967 | 2,773 | 2,067 | 1,959 | 2,114 | 2,038 | 2,484 | 2,370 | 2,240 | 1,957 | 1,434 | 1,211 | 1,970 | 1,671 |
| Native States ... ... | 310,994 | 296,213 | 308,408 | 294,002 | 308,210 | 296,305 | 219,707 | 211,817 | 323,345 | 309,676 | 310,367 | 296,012 | 113,114 | 107,728 | 119,069 | 113,407 | 119,171 | 113,336 | 114,420 | 109,263 | ‡98,547 | ‡94,630 |
| Dispensary ... ... | 6,703 | 6,020 | 5,479 | 4,800 | 5,010 | 4,369 | 4,033 | 3,611 | 3,306 | 2,976 | 3,233 | 2,637 | 1,313 | 1,121 | 938 | 876 | 1,340 | 1,148 | 2,313 | 2,220 | 985 | 953 |
| Army ... European.. | 378 | 297 | 192 | 154 | 230 | 182 | 392 | 305 | 430 | 295 | 149 | 67 | 171 | 111 | 214 | 144 | 129 | 97 | 241 | 187 | 159 | 99 |
| Army ... Native ... | 3,594 | 2,843 | 3,521 | 3,190 | 3,391 | 3,048 | 4,088 | 3,686 | 3,503 | 2,916 | 4,348 | 3,842 | 2,515 | 2,180 | 3,561 | 3,205 | 3,513 | 3,110 | 3,384 | 2,618 | 2,327 | 2,045 |
| Total ... | 896,394 | 851,718 | 900,232 | 854,182 | 885,260 | 841,913 | 830,873 | 788,351 | 924,165 | 873,919 | 905,870 | 852,706 | 712,356 | 665,883 | 732,648 | 683,044 | 736,511 | 680,033 | 681,839 | 626,170 | 623,796 | 579,144 |

Note.—Revaccinations are wholly excluded from this statement.

* From 1892, the vaccination work of Government vaccinators is included in the Káthiáwár State.

† From 1895, the figures of the Native States of Baroda, Cutch, Káthiáwár, Pálanpur and I'dar being shown separately in Appendix II, are excluded from this statement.

‡ The figures for the Cambay Native State are excluded from this statement and shown separately in Appendix II; *vide* Government Resolution in the Political Department, No. 5868, dated 18th October 1898.

Statement No. V, showing particulars of Vaccination verified by Inspecting Officers in 1898-99.

| Districts. | | Total Number of persons vaccinated. | Total Number inspected. | | Percentage of Inspections to Total Number vaccinated. | | Percentage of Cases found successful of Total Number inspected. | | Percentage of success reported by Vaccinators.* |
|---|---|---|---|---|---|---|---|---|---|
| | | | By Deputy Sanitary Commissioners. | By Inspectors and Superintendents. | By Deputy Sanitary Commissioners. | By Inspectors and Superintendents. | By Deputy Sanitary Commissioners. | By Inspectors and Superintendents. | |
| Western Registration District | Khándesh | 42,269 | 42 | 24,462 | ·10 | 57·87 | 80·95 | 94·35 | 90·41 |
| | Násik | 22,635 | 1,961 | 12,088 | 8·66 | 53·40 | 92·09 | 96·69 | 87·82 |
| | Thána | 22,613 | ... | 9,109 | ... | 40·28 | ... | 97·26 | 89·88 |
| | Kolába | 18,002 | ... | 13,013 | ... | 72·29 | ... | 91·71 | 98·18 |
| Presidency Circle | Bombay City | 14,140 | 5,425 | 6,481 | 38·37 | 45·83 | 98·21 | 98·70 | 89·37 |
| Central Registration District | Ahmednagar | 31,612 | 221 | 8,288 | ·70 | 26·19 | 97·74 | 97·03 | 90·74 |
| | Poona | 32,167 | 2,302 | 6,552 | 7·16 | 20·37 | 97·88 | 98·24 | 84·38 |
| | Sholápur | 23,395 | 130 | 10,782 | ·56 | 46·08 | 100·00 | 97·76 | 89·84 |
| | Sátára | 30,379 | 326 | 16,234 | 1·07 | 53·45 | 100·00 | 89·99 | 94·16 |
| | Ratnágiri | 28,771 | ... | 11,972 | ... | 41·61 | ... | 99·39 | 94·92 |
| Southern Registration District | Belgaum | 28,310 | 16 | 224 | ·06 | ·79 | 100· | 95·98 | 88·73 |
| | Dhárwár | 23,598 | ... | 11,026 | ... | 46·72 | ... | 97·51 | 81·26 |
| | Bijápur | 25,854 | ... | 5,961 | ... | 23·06 | ... | 99·41 | 91·23 |
| | Kánara | 15,626 | ... | 7,662 | ... | 49·03 | ... | 93·47 | 80·20 |
| Gujarát Registration District | Surat | 20,619 | 694 | 7,713 | 3·37 | 37·41 | 99·28 | 98·46 | 97·05 |
| | Broach | 10,510 | ... | 4,318 | ... | 41·09 | ... | 98·98 | 95·82 |
| | Kaira | 25,962 | ... | 11,615 | ... | 44·74 | ... | 99·28 | 97·29 |
| | Panch Maháls | 10,618 | ... | 1,712 | ... | 16·12 | ... | 99·53 | 97·77 |
| | Ahmedabad | 29,833 | 446 | 9,521 | 1·49 | 31·91 | 99·55 | 98·46 | 93·39 |
| Sind Registration District | Karáchi | 21,548 | 264 | 7,672 | 1·23 | 35·60 | 95·01 | 95·88 | 85·43 |
| | Hyderabad | 21,602 | 58 | 12,888 | ·27 | 59·66 | 100· | 97·94 | 89·41 |
| | Thar and Párkar | 11,295 | ... | 5,348 | ... | 47·35 | ... | 98·92 | 87·53 |
| | Shikárpur | 35,386 | 984 | 18,119 | 2·78 | 51·20 | 96·04 | 94·35 | 87·38 |
| | Upper Sind Frontier. | 7,008 | 4 | 2,529 | ·06 | 36·09 | 100· | 95·22 | 80·96 |
| | Grand Total | 553,746 | 12,873 | 225,282 | 2·32 | 40·68 | 99·38 | 96·97 | 90·11 |

* Percentage of success in this column is calculated on the total number reported by vaccinators as vaccinated.

*N.B.*—Native States are excluded from this statement.

# APPENDIX II.

## *Native States.*

Statement No. I, showing Particulars of Vaccination in the Native States of the Bombay Presidency during the year 1898-99.

| Number. | Native States. | Population according to Census of 1891. | Average Population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator | Primary Vaccinations. | | | | Re-vaccination. | | Percentage of Successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | | | | | | | | | | Under 1 year. | Over 1 and under 6 years. | Total of all Ages. | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | | | | | Males. | Females. | Total. | | | | | | | | | | | | | | |
| 1 | Baroda ... ... ... | 2,415,396 | 282 | 36 | P. 40,004<br>R. 2,837 | 36,573<br>481 | 76,577<br>3,318 | 2,219 | 76,769 | 67,243 | 5,013 | 72,406 | 3,318 | 1,712 | 94·55 | 51·60 | 30·69 | 67,843 | 28·09 | ... | ... |
| 2 | Cutch ... ... ... | 558,415 | 36 | 17 | P. 10,485<br>R. 17 | 10,486<br>2 | 20,971<br>19 | 1,235 | 20,993 | 16,250 | 3,882 | 20,206 | 19 | 19 | 96·35 | 100·00 | 36·22 | 17,994 | 32·22 | ... | ... |
| 3 | Káthiáwár ... ... | 2,761,879 | 120 | 55 | P. 42,640<br>R. 3,684 | 41,778<br>1,762 | 84,418<br>5,446 | 1,634 | 84,089 | 60,334 | 20,069 | 81,013 | 5,446 | 4,310 | 95·97 | 79·14 | 30·89 | 87,376 | 31·64 | ... | ... |
| 4 | Pálanpur ... ... .. | 645,526 | 83 | ... | P. ...<br>R. ... | Information not received. | | | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 5 | I'dar ... ... ... | 278,580 | 110 | 5 | P. 4,308<br>R. 141 | 4,288<br>60 | 8,596<br>201 | 1,759 | 8,637 | 7,265 | 1,019 | 8,370 | 201 | 155 | 97·37 | 77·11 | 30·60 | 7,580 | 27·21 | 42 | ·01 |
| 6 | Cambay ... ... ... | 89,722 | 256 | 2 | P. 1,249<br>R. 7 | 1,084<br>4 | 2,333<br>11 | 1,772 | 2,333 | 1,957 | 353 | 2,323 | 11 | 10 | 99·57 | 90·90 | 26·00 | 2,428 | 27·06 | ... | ... |
| | Total .. | 6,749,518 | ... | 115 | P. 98,686<br>R. 6,686 | 94,209<br>2,309 | 1,92,895<br>8,995 | 1,756 | 193,421 | 153,049 | 30,3 1 | 184,318 | 8,995 | 6,206 | 95·55 | 68·99 | 28·23 | 183,221 | 27·15 | 42 | ·01 |

# A.—VACCINE DEPARTMENT.

*Showing the Cost of the Department in the Native States of the Bombay Presidency during the year 1898-99.*

| Number. | Native States. | Expenditure. | | | | | | | | | | | | | | Paid from | | | | | Total. | Number of all successful vaccinations and re-vaccinations. | Average cost of each successful case. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | European Supervising Officers. | Pay. | Inspectors of Sanitation and Vaccination. | Pay. | Vaccinators. | Pay. | Clerks. | Pay. | Peons, &c. | Pay. | Total Pay of Establishment. | Travelling Allowances. | Contingencies. | Total Cost. | Imperial Funds. | Provincial Funds. | Local Funds. | Municipalities. | Native States. | | | |
| | | | Rs. a. p. | | Rs. a. p. | | Rs. a. p. | | Rs. a. p. | | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | | Rs. a. p. |
| 1 | Baroda ... ... | ... | ..... | 4 | Not | 44 | available. | | ..... | 40 | ..... | 14,169 5 11 | ..... | 1,121 3 4 | 15,290 9 3 | ... | ..... | ... | ... | 15,290 9 3 | 15,290 9 3 | 74,118 | 0 3 3 |
| 2 | Cutch ... ... | ... | ..... | ... | Not | | available. | ... | ..... | ... | ..... | 8,265 6 1 | ..... | ..... | 8,265 6 1 | ... | ..... | ... | ... | 8,265 6 1 | 8,265 6 1 | 20,225 | 0 6 6 |
| 3 | Káthiáwár .. | 1 | Not available. | 6 | 5,024 0 0 | 55 | 13,537 14 9 | 5 | 1,439 0 0 | 70 | 5,852 5 2 | 25,853 3 11 | 3,276 7 1 | 5,067 4 11 | 34,196 15 11 | ... | 4,884 10 5 | ... | ... | 29,312 5 6 | 34,196 15 11 | 85,323 | 0 6 5 |
| 4 | Pálanpur... .. | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ..... | ..... | ..... | ..... | ... | ..... | ... | ... | ..... | ..... | ... | ... |
| 5 | I'dar ... ... | 1 | 400 0 0 | 1 | 440 0 0 | 5 | 1,286 11 10 | ... | ..... | 5 | 409 0 0 | 2,535 11 10 | ..... | 95 15 0 | 2,631 10 10 | ... | ..... | ... | ... | 2,631 10 10 | 2,631 10 10 | 8,525 | 0 4 11 |
| 6 | Cambay ... ... | ... | ..... | 2 | 980 0 0 | 2 | 258 0 0 | ... | ..... | 2 | 93 8 0 | 1,331 8 0 | ..... | 25 4 8 | 1,356 12 8 | ... | ..... | ... | ... | 1,356 12 8 | 1,356 12 8 | 2,333 | 0 9 4 |
| | Total .. | 2 | 400 0 0 | 13 | 6,444 0 0 | 106 | 15,082 10 7 | 5 | 1,439 0 0 | 117 | 6,354 13 2 | 52,155 3 9 | 3,276 7 1 | 6,309 11 11 | 61,741 6 9 | ... | 4,884 10 5 | ... | ... | 56,856 12 4 | 61,741 6 9 | 190,524 | 0 5 2 |

*Comparative Statement No. IV, showing the Number of Persons primarily vaccinated and the Number of those Persons who were successfully vaccinated in each of the undermentioned official years.*

| Native States. | Persons Primarily Vaccinated. | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. |
| | Years ending 31st March. | | | | | | | | | | | | | | | | | | | | | |
| | 1889. | | 1890. | | 1891. | | 1892. | | 1893. | | 1894. | | 1895. | | 1896. | | 1897. | | 1898. | | 1899. | |
| Baroda ... ... | 70,777 | 68,156 | 69,246 | 66,469 | 70,989 | 68,509 | 70,389 | 68,163 | 72,557 | 69,874 | 66,504 | 64,028 | 65,589 | 62,851 | 69,236 | 65,705 | 70,602 | 66,624 | 72,273 | 68,047 | 76,577 | 72,406 |
| Cutch ... ... | 21,125 | 20,799 | 21,478 | 21,227 | 20,492 | 20,190 | 21,593 | 20,503 | 18,428 | 17,567 | 19,832 | 18,589 | 19,738 | 18,904 | 20,016 | 19,105 | 16,581 | 15,846 | 17,836 | 17,823 | 20,971 | 20,206 |
| Káthiáwár ... | 82,857 | 76,393 | 83,716 | 77,909 | 81,018 | 76,818 | 82,783 | ... | 86,024 | 81,194 | 86,444 | 82,027 | 91,782 | 87,205 | 92,808 | 89,175 | 92,505 | 88,000 | 88,489 | 79,488 | 84,418 | 81,013 |
| Pálanpur ... | 22,062 | 20,629 | 18,622 | 17,551 | 19,534 | 19,024 | 21,443 | ... | 18,124 | 17,609 | 16,184 | 15,065 | 19,893 | 18,950 | 22,843 | 21,691 | 22,495 | 20,644 | 18,926 | 17,923 | Not received. | |
| I'dar ... ... | 7,682 | 7,390 | 6,922 | 6,846 | 7,344 | 7,203 | 7,145 | 7,055 | 6,821 | 6,709 | 6,652 | 6,567 | 5,566 | 5,434 | *7,204 | *6,959 | 9,269 | 8,518 | 9,793 | 9,328 | 8,596 | 8,370 |
| Cambay ... ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2,333 | 2,323 |
| Total ... | 204,503 | 193,367 | 199,984 | 190,002 | 199,377 | 191,744 | 203,353 | 95,721 | 201,954 | 192,953 | 195,616 | 186,276 | 202,568 | 193,344 | 212,107 | 202,635 | 211,452 | 199,632 | 202,317 | 191,999 | 192,895 | 184,318 |

*N.B.*—This statement is given in Appendix II, in accordance with Government Resolution in the General Department, No. 5091 of 23rd November 1895.
*Last year revaccinations were added to these figures through mistake by the I'dar State.

# REPORT

ON

# VACCINATION

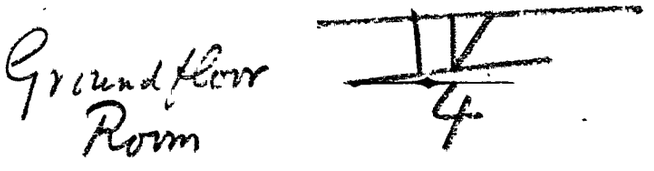
IN THE

# BOMBAY PRESIDENCY

FOR THE YEAR

## 1901-1902,

*WITH APPENDICES.*




Bombay:
PRINTED AT THE GOVERNMENT CENTRAL PRESS.

1902.

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(Prescribed maximum length, 8 pages.)


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# VACCINATION REPORT

FOR THE

## YEAR 1901-1902.

Vaccination Report.

1. The triennial full report is submitted with the modifications laid down in Government Resolution No. 7115 of 17th December 1901, in the General Department.

Changes amongst the supervising officers.

2. In all the districts except the western, changes occurred among the supervising officers, especially in the Gujarát Registration District, and in the Western District the officer had to hold another charge which prevented his doing inspection.

Vaccination in Native States.

3. The vaccination statistics of the following Native States are shown separately in Appendix II:—

Baroda, Idar, Bhor, Cutch, Pálanpur, Phaltan, Káthiáwár, Cambay, Sávantvádi.

Strength of Department.

4. There was one Inspector, one Vaccinator and one peon less than in the previous year, the post of one Inspector, Jath State, and one 1st grade Vaccinator and a peon in the Panch Maháls being abolished. At Aden an additional Vaccinator was engaged for duty at Steamer Point from 1st April to 15th September 1901.

Bushire and Muskat.

5. The Dispensary Medical Officer at Bushire and Muskat performed 798 and 75 operations, respectively.

Central Registration District.

6. The Vaccination establishments of Bhor, Phaltan and Sávantvádi Native States were transferred to the control of the State authorities.

Infants successfully vaccinated as compared with number available, *i.e.*, births minus deaths.

7. The children available for vaccination amounted to 375,365, of whom 287,388 or 76·56 per cent. were protected.

Particulars of vaccine operations.
Primary vaccination.
Statements Nos. I and III.

8. Of the total number of persons operated on, 470,517 were primarily vaccinated, 716 of them more than once, against 586,478 with 668 excess operations in the previous year, being a decrease of 115,961.

Of the 470,517 persons 243,587 or 51·77 per cent. were males, and 226,930 or 48·23 per cent. females; and 73·65 per cent. were under 1 year of age, 23·05 between the ages of 1 and 6 years, and above that age 3·29 per cent.

As regards caste of the above numbers, 0·83 per cent. were Christians, 71·02 Hindus, 20·19 Mussalmans, 0·33 Parsis, and 7·63 "other castes." The ratios are a little higher this year than last for Christians, Mussalmans and Parsis, and lower for Hindus and other castes.

Re-vaccination.

9. 50,471 persons were re-vaccinated, two of them more than once, against 73,843 and 12 in the previous year—a decrease of 23,372.

73·93 per cent. were males and 26·07 females, against 69·65 males and 30·45 females last year.

10. The total decrease amongst persons primarily vaccinated and re-vaccinated amounts to 139,333.

Reasons of decrease.

11. The decrease occurs in all the districts, but is most marked in the Central and Southern Districts.

The cause of the less work is due to a low birth-rate consequent upon the incidence of Famine and Plague. In Sind there is also opposition to vaccination.

12. In primary vaccinations the percentage of success is 92·12 against 90·86 in the previous year, "unsuccessful" 1·32 per cent. compared with 1·14 last year, and the "unknown" 6·71 per cent. as against 8·12 per cent. the previous year. The excess operations amounted to 0·15 per cent. compared with 0·11 the year before. In each district the success percentage is higher than last year, except in the Southern and Aden Districts in which it is slightly less.

Percentage of success, including "unknown" cases.

13. In re-vaccinations the percentage of success is 59·92 as against 56·96 in the previous year, 13·31 per cent. were unsuccessful and in 26·77 per cent. the results were "unknown." The Central Registration District shows the highest figures.

14. In primary vaccination 98·59 as against 98·76 in 1900-1901 and in the re-vaccination 81·82 as against 83·11.

Percentage of success excluding "unknown" cases.

15. The number of successful primary vaccinations of children under one year per mille of population was in the Western Registration District 15·04 and in the Native States of that division 15·88.

Successful vaccinations per mille of population.

In the Central Registration District 16·05 and the Native States 13·09.

In the Southern Registration District 17·87 and the Native States 12·36.

In Gujarát 13·65 and the Native States 9·27.

In Sind 15·34 and the Native States 18·98.

16. The work done this year shows in each case a diminution except in the case of the work done by Dispensaries in which there is an increase of 414. The chief falling off, 91,458, is shown in the Local Fund Establishment.

Vaccination by Establishments.

17. There is a Government Vaccinator for each of the Cantonments of Rájkot and Deesa; their work is supervised by the medical officer, Káthiáwár Agency, and is included in Appendix II—Native States. Besides these two there are three others under the Station Staff Surgeons for the military stations of Mhow, Neemuch and Nasirabad paid from "Military Funds" and their work is included in the Annual Report of the Sanitary Commissioner with the Government of India.

Government Vaccinators.

18. The Local Fund Vaccinators performed 362,595 primary operations, of which 333,390 were "successful," 4,001 "unsuccessful." In 25,204 cases the result could not be ascertained, and in 403 cases the operation was done more than once. The percentage of success is 92·05.

Results, &c.

Work done by Local Fund Vaccinators.

Statement No. I.

They did 30,437 re-vaccinations, of which 18,991 were successful, 3,369 unsuccessful and 8,077 remained unascertained. Percentage of success 62·39.

19. Every district shows a decrease of work in both operations, except Sind, in which there is an increase of 995 in primary operations counterbalanced by a decrease of 810 in re-vaccinations. The heaviest decrease is in the Central Registration District.

20. The Municipal Vaccinators performed 54,389 primary operations, of which 48,672 were successful, 1,270 unsuccessful and 4,447 cases remained unknown, 233 cases being in excess. The percentage of success is 89·87. In re-vaccinations they did 9,677 operations, 4,231 were successful, 1,761 unsuccessful and 3,685 unknown, whilst there were 2 excess operations. The percentage of success is 43·73.

Municipal Vaccinators.

Statement No. I.

The falling off of the work in this Establishment is also general, the only exception being that 105 persons more were re-vaccinated this year than last in the Southern Registration Circle.

The largest decrease, 3,507, is in the Presidency Circle, due partly to the large amount of re-vaccination work done in two previous years when small-pox was prevalent.

Sind shows a decrease of 3,501 and then the Central Circle of 2,999.

21. The Native State Vaccinators operated primarily 51,356 times—successful 48,864 or 95·28 per cent., unsuccessful 774, unknown 1,718, and there were 74 excess operations. There were 8,404 re-vaccinations of which 5,845 were successful or 69·55 per cent., 1,021 unsuccessful and 1,538 unknown. The work in every district has decreased, but chiefly in the Southern Registration District in which 24,375 persons less than last year were operated on.

Native State Vaccinators. Statement No. I.

22. The Cantonment Vaccinators did 1,600 primary operations, 1,460 or 91·59 per cent. being successful, 32 unsuccessful and 108 unknown, 6 operations being in excess.

Cantonment Vaccinators. Statement No. I.

In re-vaccination there were 519 operations, successful 346 or 66·60 per cent., unsuccessful 54 and unknown 119.

There is one Vaccinator for the Cantonment of Poona, and the Kirkee Cantonment shares one with the Poona Suburban Municipality. There is also a joint Municipal and Cantonment Vaccinator at Málegaon. Vaccination in the Deoláli Cantonment is performed under the Medical Officer in charge of the Station Hospital. In the Ahmedabad Cantonment vaccination is performed by the Medical Officer, Sadar Bazár Dispensary. Their work shows a decrease both in primary and re-vaccination, chiefly in the latter, and is most noticeable in the Central Registration District. The Gujarát Registration District shows a slight increase. The total decrease is 1,309 over last year's figures.

23. At five Dispensaries there were 1,293 operations, of which 1,069 or 82·68 per cent. were successful, 114 unsuccessful and 110 unknown.

Dispensary work. Statement No. III.

They did 1,436 re-vaccinations, 829 or 57·03 per cent. being successful, 515 unsuccessful and 92 remaining unknown. The work done for the present year shows an increase and is due chiefly to the increased work at Bushire. The work at Shaikh Othman being performed by Municipal Vaccinators, is included under that head.

24. The average number of persons vaccinated by each Vaccinator amounted to 1,222 this year, as against 1,548 last year, the Municipal Vaccinators heading the list with 1,330 and the Local Fund Vaccinators being next with 1,283.

Average number of operations by each Vaccinator.

English Lymph.

25. No English lymph was received during the year.

26. The quality of the lymph supply remained good. Lymph was supplied by the Deputy Sanitary Commissioner, Central Registration District, to the Medical Officer, Chakrata, Kotah and Jhaláwad, Lucknow, Mahábaleshwar, Mátheran and Purandhar; by the Deputy Sanitary Commissioner, Gujarát, to the Medical Officers, Sádra, Ahmedabad Central Prison, Junágadh-Porbander Railway. In the Presidency Circle there were 637 applications for lymph, against 565 in 1900-1901. The total number of tubes issued was 3,224 against 5,908 in the preceding year. Of these 1,074 were supplied free of charge to Civil Surgeons, Deputy Sanitary Commissioners, the Medical Officers in charge of Army Hospitals in the mofussil, and to the Medical Officers in charge of His Majesty's troopships in the harbour. The remaining 2,150 tubes were sold to private parties in the city as well as in the mofussil. The glycerinated lymph prepared by the Superintendent, Presidency Circle, was supplied to Mengo Uganda Protectorate, and from the lymph thus supplied 18 persons were vaccinated, of whom three were successful, and from these three others were successfully vaccinated, about 1,000 being vaccinated from the lymph propagated from these three cases. Inoculated calves were supplied as under:—1 to the Railway Surgeon, Budnera, 1 to the Railway Surgeon, Bhusával, and 1 to the Panvel Municipality.

Lymph supply.

The following table shows the different kinds of lymph used, the work done with each kind and the comparative results obtained in each district during the

year 1901-1902 as required by Government in their Resolution No. 1039, dated 20th February 1901 :—

| Districts. | Kind of Lymph used. | Number of operations performed. | Successful cases. | Percentage of success. |
|---|---|---|---|---|
| Western Registration District ... ... ... | Human ... ... ... | 85,551 | 76,114 | 88·97 |
| | Animal ... ... ... | 2,136 | 1,514 | 70·88 |
| | Glycerized... ... ... | ... | ... | ... |
| Presidency Circle. ... | Human ... ... ... | ... | ... | ... |
| | Animal ... ... ... | 15,931 | 12,905 | 81·01 |
| | Glycerized... ... ... | 538 | 395 | 73·42 |
| Central Registration District ... ... ... | Human ... ... ... | 100,293 | 92,457 | 92·19 |
| | Animal ... ... ... | 20,317 | 18,251 | 89·83 |
| | Glycerized... ... ... | ... | ... | ... |
| Southern Registration District. ... ... | Human ... ... ... | 116,130 | 103,231 | 88·89 |
| | Animal ... ... ... | 10,740 | 9,015 | 83·94 |
| | Glycerized... ... ... | ... | ... | ... |
| | Lanoline Paste ... ... | 3,982 | 3,163 | 79·43 |
| Gujarát Registration District ... ... ... | Human ... ... ... | 63,298 | 59,103 | 93·37 |
| | Animal ... ... ... | ... | ... | ... |
| | Glycerized... ... ... | ... | ... | ... |
| Sind Registration District. | Human ... ... ... | 93,547 | 81,210 | 86·81 |
| | Animal ... ... ... | 3,912 | 3,475 | 88,81 |

Animal vaccination in the Western Registration District.

27. In the Western Registration District animal lymph is used in the towns of Dhulia, Chopda in the Khándesh Collectorate, Násik town in Násik Collectorate and Panvel town in Kolába Collectorate. The number of persons vaccinated with animal lymph in these towns during the year was 720 primary vaccinations and 588 re-vaccinations, the successful cases under each head being 641 and 285, respectively.

Animal vaccination in Bombay City.

28. In the City of Bombay animal lymph has been in use for many years past. During the year 433 calves were inoculated; of these 14 were rejected on account of sickness, and 3 were supplied to Municipalities. The total number of insertions was 78,108. 77,211 insertions were successful, the percentage of success being 98·85.

Animal vaccination in Central Registration District.

29. In the Central Registration District the Deputy Sanitary Commissioner states that the practice of using animal lymph was carried continuously during the year with a considerable amount of success. It was carried on throughout the year in Poona City and Cantonment of Poona and Kirkee and in the towns of Ahmednagar, Sholápur and Sátára. Of the minor Municipalities, Junnar, A'landi, Jejuri, Sásvad, Sirúr, Talegaon-Dábháda, Lonávla, Bárámati, Sangamner, Vámbori, Bhingár, Karád, Wái, Rahimatpur, Mhaswad and Chiplun have provided sums for a calf every six months; the Bársi and Pandharpur Municipalities have provided a calf every four months.

The practice has been introduced in the chief towns of Bhor, Phaltan, Aundh and Akalkot Native States.

A few villages provide funds to furnish a calf every six months, and some once a year; many other villages lend a calf for vaccination purposes. Animal vaccination was carried on in the following tálukas and Native States :—Nagar, Ráhuri, Samgamner of the Ahmednagar Collectorate; Sholápur, Mádha, Pandharpur, Bársi and Akalkot State in the Sholápur Collectorate; Sátára, Koregaon, Khatáv, Mán, Jávli, Karád, Wái and in the Native States of Phaltan and Aundh in the Sátára Collectorate; Haveli, Purandhar, Bhimthadi, Sirúr, Khed, Junnar, Mával, and in the Native State of Bhor in the Poona Collectorate; and Chiplún in Ratnágiri Collectorate. In all 10,653 children were vaccinated in 426 villages of the above-mentioned tálukas and Native States. Animal vacci-

nation was carried on throughout the year in four Municipalities and in two Cantonments, and in these 10,445 children were vaccinated. The total number of persons vaccinated with calf lymph during the year was 21,098 compared with 26,744 in 1900-1901. In the Rural Districts there were 10,653 operations compared with 14,306 in the previous year, and in the four principal towns and the two Cantonments 10,445 compared with 12,438 in 1900-1901.

Human and animal lymph.

The following statement shows the number and results of vaccination done with human and animal lymph during the year 1901-1902 in this district:—

| Collectorates, &c. | Number of Vaccinations. | | Number of Successful Cases. | | Total. | |
|---|---|---|---|---|---|---|
| | Human. | Animal. | Human. | Animal. | Number of Vaccinations. | Successful cases. |
| Ahmednagar ... | 21,858 | 2,767 | 19,580 | 2,506 | 24,625 | 22,086 |
| Poona ... ... | 14,125 | 12,108 | 13,318 | 11,034 | 26,233 | 24,352 |
| Sholápur ... ... | 18,738 | 2,915 | 16,927 | 2,808 | 21,653 | 19,735 |
| Sátára ... ... | 19,633 | 1,607 | 18,247 | 1,088 | 21,240 | 19,335 |
| Ratnágiri ... ... | 23,523 | 149 | 22,182 | 144 | 23,672 | 22,326 |
| Native States ... | 2,416 | 771 | 2,203 | 671 | 3,187 | 2,874 |
| Total ... | 100,293 | 20,317 | 92,457 | 18,251 | 120,610 | 110,708 |

Animal vaccination in the Southern Registration District.

30. In the Southern Registration District animal vaccination was continued in Belgaum, Dhárwár, Hubli, Gadag, Byádgi, Ránebennur, Haveli Towns and in the States of Kolhápur, Sángli and Sávanur.

Animal vaccination in the Gujarát Registration District.

31. Animal vaccination was discontinued in Ahmedabad owing chiefly to the famine causing a difficulty to the supply of calves.

Animal vaccination in Sind Registration District.

32. In the Sind Registration District animal vaccination was carried on in the town of Karáchi without any opposition throughout the year. The calf lymph was supplied from Karáchi to the District Vaccinators and Medical Officers in Sind and Baluchistan on indents.

Calves inoculated.

33. Of the 1,141 calves inoculated at 17 towns carrying on animal vaccination work only 6 were reported as having failed and 5 of these failures occurred in Belgaum Town. The work is very satisfactory. The scope of it has been increasing and it is hoped may increase especially in the large towns and so do away with any opposition shown.

34. The total expenditure on account of vaccination is shown in the following table and is compared with the preceding year:—

| Establishments. | 1900-1901. | 1901-1902. | Increase. | Decrease. |
|---|---|---|---|---|
| | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. |
| Provincial ... ... | 1,16,533 6 2 | 99,205 7 0 | ..... | 17,327 15 2 |
| Municipal and Cantonments... ... | 41,044 10 8 | 38,934 12 5 | ..... | 2,109 14 3 |
| Local Fund... ... | 1,05,492 9 3 | 1,05,324 1 4 | ..... | 168 7 11 |
| Native States ... | 28,117 9 4 | 27,276 7 0 | ..... | 841 2 4 |
| Total ... | 2,91,188 3 5 | 2,70,740 11 9 | ..... | 20,447 7 8 |

There was a decrease in expenditure under all establishments. It was due to the absence of Deputy Sanitary Commissioners on furlough; to the discontinuance of grain compensation to Vaccinators and peons; to there being no additional establishment and to the abolition of the appointment of one Inspector and one Vaccinator and a peon. The successful cases, excluding dispensaries, amounted to 461,799, and the average cost for each successful case is annas nine and pies five against annas eight and pies two in the previous year.

The cost per each successful case is higher this year, though the total cost is less, as the establishment owing to the reasons given for the smaller outturn could not work up to their full power.

Work of Deputy Sanitary Commissioners.

35. The highest number of children inspected in any one district during the year was (7,282) in the Western Registration District, and the lowest (2,292) in the Gujarát Registration District. These officers travelled the distance of 11,140 miles in 634 days and inspected 21,196 children in 676 villages.

Inspection from vaccination registers.

36. Of 21,196 children inspected, the results in 20,374 instances were tested by calling their names from registers, in which there were enrolled 38,317 names of whom 13 were vaccinated more than once on account of the failure of the first. Excluding the 'Absent' the inspecting officer returned 97·81 and the Vaccinators 98·16 per cent. as successful; out of 19,941 successful cases inspected 85·74 per cent. had good and sufficient cicatrices.

Inspection work of Deputy Sanitary Commissioners.

37. During the year inspection was carried out by the Deputy Sanitary Commissioners in every Collectorate except Ahmednagar, Sholápur and Broach. In the Southern and Gujarát Registration Districts the inspection work was small owing to the absence of the permanent Deputy Sanitary Commissioners in both the districts and to the Famine work they had to do in addition to their own duties.

Work of Inspectors and Assistant Superintendents of Vaccination.

38. During the year there were 38 Inspectors of Sanitation and Vaccination who were on travelling duty. The names of 305,024 children were called from registers of whom 199,185 were present and 105,463 absent, but their absence was accounted for, whilst 144 had migrated. Out of 199,185 children inspected 194,570 were protected and in 4,615 cases the operation was unsuccessful. Again out of 194,570 successful cases 166,234 had good cicatrices and 28,336 "bad." In the registers tested the results were entered as 277,878 successful, 4,070 unsuccessful and doubtful, 23,076 unknown or absent, and 232 secondary operations. The greatest number of children inspected was in the Western Registration District and the greatest number of villages seen was in Sind.

Conduct of members in the Department.

39. The conduct of the inspecting officers was reported to be satisfactory. The conduct of the Vaccinators, clerks and peons with few exceptions was generally good.

Inoculation.

40. No inoculation was reported to have been practised anywhere in the Presidency during the year under report.

Ill effects by vaccination.

41. No instances were reported of any disease having been communicated through vaccination.

Villages visited and not visited by Vaccinators.

42. Out of 49,714 villages in the Presidency 44,191 were visited by Vaccinators and 5,523 or 12·50 per cent. were not visited. In the British territory 36,864 villages were visited and 4,686 or 12·71 per cent. not visited, whilst in Native States the percentage of unvisited villages was 11·42.

Small-pox by Collectorates.

43. The number of deaths from small-pox amounted to 4,277; of these 543 occurred in the Western Registration District, 163 in the Presidency Circle, 504 in the Central, 2,346 in the Southern, 58 in Gujarát, and 663 in the Sind Registration Circle. The greatest mortality took place amongst children between the ages of 1 and 12 and the number of persons successfully operated on in each district was 74,126 in the Western, 13,050 in the Presidency, 107,834 in the Central, 84,843 in the Southern, 46,067 in the Gujarát, and 78,797 in the Sind Circle.

Every Collectorate, except Kaira, Panch Maháls and Ahmedabad, return deaths from small-pox, but the deaths in Broach and Thar and Párkar are few, two in each case. The highest number is shown in Kánara (1,175), next in Dhárwár (782), and then Khándesh (359).

Diagram showing the proportion of population protected during seven years and the death-rate from small-pox during 1901-1902.

44. One diagram is given in the Appendix as directed by Government in their Resolution No. 764 of 1st March 1894.

Tour of the Deputy Sanitary Commissioner, Western Registration District.

45. The Deputy Sanitary Commissioner, Western Registration District, held charge of the offices of the Civil Surgeon, Násik, and District Medical Officer in addition to his own duties from 17th April to 27th November 1901, and on the 5th March he was in charge of the office of the Sanitary Commissioner to the end of the year.

He toured chiefly in the districts of Khándesh, Thána and Kolába. In all 2,189 miles were travelled by him in 131 days and 7,282 children inspected in 194 villages.

Tour of the Deputy Sanitary Commissioner, Central Registration District.

46. The Assistant Civil Surgeon, Poona, held charge of the office of Deputy Sanitary Commissioner, Central Registration District, from 1st April to 1st July, and could not do any inspection work. Captain Knapton, I. M. S., was then appointed a full-time officer and he toured in the districts of Poona, Sátára and Ratnágiri. The total number of children inspected during the year was 5,169 in 171 villages and the number of miles travelled was 1,910 in 162 days.

Tour of the Deputy Sanitary Commissioner, Southern Registration District.

47. The Civil Surgeon, Belgaum, held charge in this district from 4th June to 13th December 1901. The tour was in the Collectorate of Belgaum chiefly, but Dhárwár, Bijápur, Kánara and the States of Sángli and Kurundvád were also visited. 24 encampments were made in 91 travelling days, 1,276 miles were travelled and 80 towns and villages inspected. 2,548 vaccinated children were inspected.

Tour of the Deputy Sanitary Commissioner, Gujarát Registration District.

48. The charge of this office was held by four different officers during the year and touring was done in the Collectorates of Surat, Kaira, Ahmedabad and the Panch Maháls. During the period of 115 days of travelling 33 encampments were made; 118 villages visited, travelling 1,452 miles during the course of the tour. 2,292 vaccinated children were inspected, and many famine relief camps, hospitals and poor-houses were reported on.

Tour of the Deputy Sanitary Commissioner, Sind Registration District.

49. The permanent Deputy Sanitay Commissioner, Sind Registration District, in 135 days made 62 encampments, and during that period he travelled 4,313 miles and inspected 3,905 children vaccinated in 113 villages.

The Compulsory Vaccination Act in Bombay City.

50. In the City of Bombay, the Compulsory Vaccination Act (No. I of 1877) has been in force for 24 years. The following table shows the progress and the protection of infants during the last 5 years; the average of two periods of 10 years after and 2 years before the introduction of the Act:—

| Years. | Births returned as having been registered. | Deaths registered among children under one year old. | Children available for Vaccination. | | Children under one year successfully vaccinated. | | |
|---|---|---|---|---|---|---|---|
| | | | Births minus deaths. | At the rate of 31 per 1,000 of Population. | Number. | Ratio per 100 on those in Column 4. | Ratio per 100 on those in Column 5. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Average, 1876-77 and 1877-78 ... ... | 13,593 | 6,980 | 6,613 | 19,977 | 8,526 | 128·93 | 42·68 |
| Average from 1878-79 to 1887-88 ... ... | 15,054 | 6,072 | 8,982 | 22,771 | 11,894 | 132·42 | 52·23 |
| Average from 1888-89 to 1897-98 ... ... | 14,947 | 6,654 | 8,293 | 25,023 | 13,879 | 167·36 | 55·46 |
| 1897-98 ... ... | 9,336 | 6,808 | 2,528 | 25,474 | 9,952 | 393·67 | 39·07 |
| 1898-99 ... ... | 10,784 | 6,279 | 4,505 | 25,474 | 9,651 | 214 23 | 37·89 |
| 1899-1900 ... ... | 10,695 | 11,707 | *Nil* | 25,474 | 11,434 | *Nil* | 44·88 |
| 1900-1901 ... ... | 12,430 | 9,760 | 2,670 | 25,474 | 10,646 | 398·73 | 41·79 |
| 1901-1902 ... .. | 12,924 | 7,171 | 5,753 | 24,056 | 10,211 | 177·49 | 42·45 |

Compulsory Vaccination Act in Karáchi Town.

51. In Karáchi Town, the Compulsory Vaccination Act (No. IV of 1879) has been in force for the last 22 years, and the following table shows the progress giving the average of two ten years' periods, and the details of the last two years. During the year under report, 2,969 children under one year of age were successfully vaccinated, the births minus deaths under one year of age being 3,282 :—

| Years. | Births returned as having been registered. | Deaths registered among children under one year. | Children available for Vaccination. | | Children under one year successfully vaccinated. | | |
|---|---|---|---|---|---|---|---|
| | | | Births minus deaths. | At the rate of 31 per 1,000. | Number. | Ratio per 100 on those in Column 4. | Ratio per 100 on those in Column 5. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Average from 1880-81 to 1889-90 ... ... | 3,134 | 720 | 2,414 | 2,118 | 2,912 | 120·65 | 137·49 |
| Average from 1890-91 to 1899-1900 ... | 4,180 | 1,254 | 2,926 | 3,261 | 3,061 | 104·61 | 93·87 |
| 1900-1901 ... ... | 4,245 | 1,751 | 2,494 | 3,261 | 3,125 | 125·30 | 95·83 |
| 1901-1902 ... ... | 4,458 | 1,176 | 3,282 | 3,500 | 2,969 | 90·46 | 84·83 |

Compulsory Vaccination Act in Lárkhána Town.

52. The Bombay District Vaccination Act (No. I of 1892) was introduced in the town of Lárkhána, Sind, in 1899 (*vide* Government Resolution in the General Department, No. 6847 of 14th December 1898) and continued to work smoothly.

53. The present year has been a very disastrous one for vaccination, but of course, owing to the paucity of births the figures are not as high as they were. More prosperous years, it is hoped, will soon occur and then the work will attain to more than its former level. The famine camps were visited and all available vaccinated.

Officers of the Department.

54. The Deputy Sanitary Commissioner and the Superintendent, Presidency Circle, have all worked with zeal, and I may be permitted to bring to notice the Famine and Cholera work done by Majors Arnim and Dyson, and upon the latter Government were pleased to bestow the gold medal of the *Kaiser-i-Hind* order.

Sanitary Commissioner's Office.

55. The work in the office, as has been the case for several years past, has been very laborious. Four clerks have died within the last two years throwing extra work on the permanent hands, but all have worked well under the example set by my Assistant Mr. Keess, who has not spared himself to keep the work from falling into arrears.

J. W. CLARKSON, Lieut.-Col., I.M.S.,
Sanitary Commissioner.

*Bombay, 15th July 1902.*

# APPENDICES.

APPEN

A.—VACCINA

Statement No. I., showing Particulars of Vaccination

| Number. | Circles and Districts. | Population of Districts according to Census of 1901. | Average population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. |
|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 4 | 5 | 6 | | | 7 |
| | THE WESTERN REGISTRATION DISTRICT. | | | | Males. | Females. | Total. | |
| | KHA'NDESH COLLECTORATE— | | | | | | | |
| 1 | Dhulia Town, Local Fund ... | 24,726 | ... | ... | P. 161<br>R. 565 | 200<br>14 | 361<br>579 | 940 |
| 2 | Nandurbár Town, Local Fund. | 10,922 | ... | ... | P. 109<br>R. ... | 76<br>1 | 185<br>1 | 186 |
| 3 | Chopda Town, Local Fund ... | 18,612 | ... | ... | P. 191<br>R. 3 | 155<br>1 | 346<br>4 | 350 |
| 4 | Nasirabad Town, do. ... | 12,176 | ... | ... | P. 193<br>R. ... | 198<br>... | 391<br>... | 391 |
| 5 | In the 21 Rural Circles, Local Fund ... ... ... ... | 1,375,585 | ... | 29 | P. 15,608<br>R. 944 | 15,144<br>501 | 30,752<br>1,445 | 1,110 |
| | Total ... | 1,442,021 | ... | 29 | P. 16,262<br>R. 1,512 | 15,773<br>517 | 32,035<br>2,029 | 1,174 |
| | NA'SIK COLLECTORATE— | | | | | | | |
| 6 | Yeola Town, Municipal ... | 16,559 | ... | 1 | P. 269<br>R. 8 | 282<br>... | 551<br>8 | 559 |
| 7 | Násik do. do. ... ... | 21,490 | ... | 1 | P. 317<br>R. 71 | 283<br>15 | 600<br>86 | 686 |
| 8 | Deoláli Cantonment ... ... | 2,894 | ... | 1 | P. 14<br>R. 1 | 15<br>... | 29<br>1 | 30 |
| 9 | Málegaon ... Cantonment ... | 3,222 | ... | ... | P. 30<br>R. ... | 47<br>... | 77<br>... | 77 |
| | Málegaon ... Municipal ... | 19,054 | | ... | P. 201<br>R. ... | 184<br>... | 385<br>... | 385 |
| 10 | In the 12 Rural Circles, Local Fund. | 753,285 | ... | 16 | P. 8,576<br>R. 654 | 8,027<br>252 | 16,603<br>906 | 1,094 |
| | Total ... | 816,504 | ... | 19 | P. 9,407<br>R. 734 | 8,838<br>267 | 18,245<br>1,001 | 1,013 |
| | THA'NA COLLECTORATE— | | | | | | | |
| 11 | Kalyán Town, Municipal ... | 10,749 | ... | ... | P. 70<br>R. ... | 65<br>... | 135<br>... | 135 |
| 12 | Bhiwndi do. do. ... | 10,354 | ... | 1 | P. 129<br>R. 1 | 99<br>2 | 228<br>3 | 231 |
| 13 | Thána do. do. ... | 16,011 | ... | 1 | P. 182<br>R. 899 | 122<br>17 | 304<br>916 | 1,220 |
| 14 | In the 9 Rural Circles Local Fund | 774,319 | ... | 15 | P. 7,200<br>R. 218 | 7,343<br>203 | 14,543<br>421 | 1,024 |
| | In the 9 Rural Circles Municipal ... | | | | P. 192<br>R. 2 | 201<br>1 | 393<br>3 | |
| | Total ... | 811,433 | ... | 17 | P. 7,773<br>R. 1,120 | 7,830<br>223 | 15,603<br>1,343 | 997 |
| | KOLA'BA COLLECTORATE— | | | | | | | |
| 15 | Panvel Town, Local Fund ... | 10,152 | ... | ... | P. 59<br>R. 7 | 47<br>1 | 106<br>8 | 114 |
| 16 | Alibág do. do. ... | 6,055 | ... | ... | P. 40<br>R. 2 | 36<br>... | 76<br>2 | 78 |
| 17 | Mahád do. do. ... | 7,738 | ... | ... | P. 65<br>R. 1 | 56<br>... | 121<br>1 | 122 |
| 18 | In the 8 Rural Circles, Local Fund. | 581,621 | ... | 14 | P. 6,581<br>R. 150 | 6,482<br>316 | 13,063<br>466 | 966 |
| | Total ... | 605,566 | ... | 14 | P. 6,745<br>R. 160 | 6,621<br>317 | 13,366<br>477 | 988 |
| | NATIVE STATES— | | | | | | | |
| 19 | Jawhár ... ... ... ... | 47,538 | ... | 1 | P. 420<br>R. 106 | 409<br>114 | 829<br>220 | 1,049 |
| 20 | Janjira ... ... ... ... | 85,414 | ... | 2 | P. 1,036<br>R. 160 | 944<br>96 | 1,980<br>256 | 1,118 |
| 21 | Dángs ... ... ... ... | 18,633 | ... | 1 | P. 157<br>R. ... | 146<br>... | 303<br>... | 303 |
| 22 | Surgána ... ... ... ... | 11,532 | ... | ... | P. ...<br>R. ... | ...<br>... | ...<br>... | ... |
| | Total ... | 163,117 | ... | 4 | P. 1,613<br>R. 266 | 1,499<br>210 | 3,112<br>476 | 897 |

# DIX I.

## TION RETURN.

in the Bombay Presidency during the year 1901-1902.

| Primary Vaccinations. | | | | Re-vaccination. | | Percentage of successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | Under 1 year. | Over 1 and under 6 years. | Total of all ages. | | | | | | | | | |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 361 | 211 | 102 | 313 | 579 | 278 | 86·70 | 48·01 | 23·90 | 600 | 24·26 | 10 | ·40 |
| 185 | 117 | 19 | 136 | 1 | 1 | 73·51 | 100·00 | 12·54 | 167 | 15·29 | 4 | ·37 |
| 346 | 230 | 77 | 307 | 4 | 3 | 88·72 | 75·00 | 16·65 | 346 | 18·59 | 9 | ·48 |
| 391 | 276 | 113 | 389 | ... | ... | 99·49 | ... | 31·94 | 235 | 19·30 | 3 | ·24 |
| 30,793 | 20,956 | 6,313 | 27,426 | 1,445 | 988 | 89·06 | 68·37 | 20·66 | 39,129 | 28·58 | 984 | ·71 |
| 32,076 | 21,790 | 6,624 | 28,571 | 2,029 | 1,270 | 89·07 | 62·59 | 20·70 | 40,477 | 28·20 | 1,010 | ·70 |
| 551 | 257 | 162 | 419 | 8 | 1 | 76·04 | 12·50 | 25·36 | 473 | 28·56 | 13 | ·79 |
| 600 | 337 | 207 | 545 | 86 | 42 | 90·83 | 48·84 | 27·31 | 579 | 26·94 | 14 | ·65 |
| 29 | 14 | 9 | 23 | 1 | ... | 79·31 | ... | 7·95 | 63 | 21·77 | ... | ... |
| 77 | 60 | 10 | 70 | ... | ... | 90·91 | ... | ... | 491 | 20·38 | 1 | ·04 |
| 385 | 241 | 91 | 332 | ... | ... | 86·23 | ... | 1·74 | | | | |
| 16,629 | 11,331 | 2,698 | 14,332 | 906 | 556 | 86·19 | 61·37 | 19·31 | 21,062 | 27·31 | 306 | ·40 |
| 18,271 | 12,240 | 3,177 | 15,721 | 1,001 | 599 | 86·04 | 59·84 | 20·02 | 22,668 | 29·76 | 334 | ·41 |
| 135 | 97 | 28 | 125 | ... | ... | 92·59 | ... | 11·63 | 265 | 24·56 | 2 | ·19 |
| 228 | 181 | 39 | 220 | 3 | 3 | 96·49 | 100·00 | 21·54 | 282 | 27·24 | ... | ... |
| 304 | 202 | 60 | 268 | 916 | 129 | 88·16 | 14·08 | 25·76 | 1,050 | 67·81 | 1 | ·06 |
| 14,569 | 9,843 | 3,503 | 13,455 | 421 | 266 | 92·35 | 63·18 | 17·72 | 18,736 | 24·09 | 82 | ·01 |
| 395 | 323 | 47 | 370 | 3 | 1 | 93·67 | 33·33 | ... | | | | |
| 15,631 | 10,646 | 3,676 | 14,438 | 1,343 | 399 | 92·37 | 29·71 | 18·30 | 20,393 | 24·95 | 85 | ·10 |
| 107 | 66 | 38 | 104 | 8 | 6 | 97·19 | 75·00 | 10·83 | 146 | 14·38 | 2 | ·19 |
| 76 | 35 | 24 | 59 | 2 | ... | 77·53 | ... | 9·84 | 132 | 22·01 | 8 | 1·33 |
| 121 | 73 | 15 | 88 | 1 | 1 | 72·72 | 100·00 | 11·50 | 232 | 29·85 | ... | ... |
| 13,094 | 10,435 | 2,144 | 12,599 | 466 | 271 | 96·21 | 58·15 | 22·11 | 16,786 | 28·79 | 99 | ·17 |
| 13,398 | 10,609 | 2,221 | 12,850 | 477 | 278 | 95·91 | 60·40 | 21·66 | 17,296 | 28·47 | 109 | ·18 |
| 829 | 763 | 64 | 828 | 220 | 220 | 99·88 | 100·00 | 22·05 | 1,877 | 39·48 | ... | ... |
| 1,984 | 1,740 | 210 | 1,962 | 256 | 244 | 98·09 | 95·31 | 25·23 | 2,733 | 32·00 | ... | ... |
| 303 | 87 | 150 | 248 | ... | ... | 81·85 | ... | 13·31 | 355 | 19·05 | ... | ... |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | 25 | 21·68 | ... | ... |
| 3,116 | 2,590 | 424 | 3,038 | 476 | 464 | 97·50 | 97·89 | 21·47 | 4,990 | 30·59 | ... | ... |

Statement No. I., showing

| Number. | Circles and Districts. | Population of Districts according to Census of 1901. | Average population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 |
| | THE WESTERN REGISTRATION DISTRICT—*contd.* | | | | Males. | Females. | Total. | |
| | TOTAL BY ESTABLISHMENT IN WESTERN REGISTRATION DISTRICT. | | | | | | | |
| | Cantonment ... ... ... | 6,116 | ... | 1 | P. 44<br>R. 1 | 62<br>... | 106<br>1 | 107 |
| | Municipal ... ... ... | 94,217 | ... | 4 | P. 1,360<br>R. 981 | 1,236<br>35 | 2,596<br>1,016 | 903 |
| | Local Fund ... ... ... | 3,575,191 | ... | 74 | P. 38,783<br>R. 2,544 | 37,764<br>1,289 | 76,547<br>3,833 | 1,086 |
| | Native States ... ... ... | 163,117 | ... | 4 | P. 1,613<br>R. 266 | 1,499<br>210 | 3,112<br>476 | 897 |
| | Grand Total ... | 3,838,641 | ... | 83 | P. 41,800<br>R. 3,792 | 40,561<br>1,534 | 82,361<br>5,326 | 1,056 |
| | THE PRESIDENCY CIRCLE. | | | | | | | |
| 23 | Bombay City (Municipal) ... | 776,006 | 35,273 | 8 | P. 6,785<br>R. 2,108 | 7,095<br>167 | 13,880<br>2,275 | 2,019 |
| 24 | Bándra „ „ ... ... | 22,075 | ... | ... | P. 217<br>R. 2 | 167<br>2 | 384<br>4 | 388 |
| 25 | Kurla „ „ ... ... | 14,831 | ... | ... | P. 149<br>R. ... | 112<br>... | 261<br>... | 261 |
| | Total ... | 812,912 | ... | 8 | P. 7,151<br>R. 2,110 | 7,374<br>169 | 14,525<br>2,279 | 2,101 |
| | THE CENTRAL REGISTRATION DISTRICT. | | | | | | | |
| | AHMEDNAGAR COLLECTORATE— | | | | | | | |
| 26 | Ahmednagar Town, Municipal. | 35,784 | 71,567 | 1 | P. 759<br>R. 300 | 582<br>24 | 1,341<br>324 | 1,665 |
| 27 | Ahmednagar Cantonment ... | 6,248 | ... | ... | P. 231<br>R. 267 | 36<br>9 | 267<br>276 | 543 |
| 28 | Sangamner Town, Local Fund . | 11,011 | 18,663 | ... | P. 127<br>R. 10 | 121<br>... | 248<br>10 | 258 |
| 29 | In the 11 Rural Circles, Local Fund. | 784,652 | 119 | 14 | P. 10,678<br>R. 534 | 10,522<br>425 | 21,200<br>959 | 1,583 |
| | Total ... | 837,695 | 127 | 15 | P. 11,795<br>R. 1,111 | 11,261<br>458 | 23,056<br>1,569 | 1,642 |
| | POONA COLLECTORATE— | | | | | | | |
| 30 | Poona City, Municipal ... ... | 111,381 | 23,107 | 2 | P. 960<br>R. 18 | 1,047<br>4 | 2,007<br>22 | 1,015 |
| 31 | Poona and Kirkee Cantonment. | 43,574 | ... | 2 | P. 736<br>R. 493 | 709<br>25 | 1,445<br>518 | 982 |
| 32 | Junnar Town, Local Fund ... | 9,675 | 26,875 | ... | P. 103<br>R. 1 | 75<br>... | 178<br>1 | 179 |
| 33 | In the 8 Rural Circles. Local Fund ... | 830,700 | 165 | 15 | P. 10,268<br>R. 253 | 10,232<br>84 | 20,500<br>337 | 1,389 |
| | In the 8 Rural Circles. Municipal ... | | | | P. 118<br>R. 828 | 104<br>175 | 222<br>1,003 | 1,225 |
| | Total ... | 995,330 | 185 | 19 | P. 12,185<br>R. 1,593 | 12,167<br>288 | 24,352<br>1,881 | 1,381 |
| | SHOLÁPUR COLLECTORATE— | | | | | | | |
| 34 | Sholápur Town, Municipal ... | 75,288 | 11,582 | 1 | P. 852<br>R. 270 | 867<br>22 | 1,719<br>292 | 2,011 |
| 35 | Bársi do. do. ... | 24,242 | 1,564 | 1 | P. 395<br>R. 25 | 304<br>7 | 699<br>32 | 731 |
| 36 | Pandharpur do. do. ... | 32,405 | 3,209 | 1 | P. 303<br>R. 1 | 299<br>... | 602<br>1 | 603 |
| 37 | In the 7 Rural Circles. Local Fund ... | 589,042 | 130 | 11 | P. 7,875<br>R. 861 | 7,606<br>695 | 15,481<br>1,556 | 1,549 |
| | In the 7 Rural Circles. Municipal ... | | | | P. 620<br>R. 2 | 649<br>... | 1,269<br>2 | 1,271 |
| | Total ... | 720,977 | 159 | 14 | P. 10,045<br>R. 1,159 | 9,725<br>724 | 19,770<br>1,883 | 1,547 |

Particulars of Vaccination, &c.—*continued.*

| Primary Vaccinations. | | | | Re-vaccination. | | Percentage of successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | Under 1 year. | Over 1 and under 6 years. | Total of all ages. | | | | | | | | | |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 106 | 74 | 19 | 93 | 1 | ... | 87·74 | ... | 15·21 | 63 | 10·30 | ... | ... |
| 2,598 | 1,638 | 634 | 2,279 | 1,016 | 176 | 87·72 | 17·32 | 23·69 | 4,120 | 25·56 | 31 | ·33 |
| 76,672 | 53,573 | 15,045 | 69,208 | 3,833 | 2,370 | 90·27 | 61·99 | 20·43 | 96,651 | 27·59 | 1,507 | ·42 |
| 3,116 | 2,590 | 424 | 3,038 | 476 | 464 | 97·50 | 97·89 | 21·47 | 4,990 | 30·59 | ... | ... |
| 82,492 | 57,875 | 16,122 | 74,618 | 5,326 | 3,010 | 90·45 | 56·52 | 20·23 | 105,824 | 25·55 | 1,538 | ·39 |
| 13,911 | 10,211 | 2,336 | 12,730 | 2,275 | 320 | 91·71 | 14·07 | 16·82 | 18,708 | 16·68 | 803 | ·98 |
| 384 | 1,501 | 101 | 252 | 4 | 4 | 65·63 | 100·00 | 11·60 | ... | ... | ... | ... |
| 261 | 134 | 44 | 178 | ... | ... | 68·20 | ... | 12·00 | ... | ... | ... | ... |
| 14,556 | 11,846 | 2,531 | 13,160 | 2,279 | 324 | 90·60 | 14·22 | 16·58 | 18,708 | 16·68 | 803 | ·98 |
| 1,341 | 889 | 337 | 1,307 | 324 | 259 | 97·46 | 79·94 | 43·76 | 1,939 | 54·19 | 21 | ·59 |
| 267 | 59 | 25 | 258 | 276 | 172 | 97·00 | 62·32 | 68·82 | 249 | 39·85 | 1 | ·16 |
| 248 | 210 | 33 | 245 | 10 | 2 | 98·79 | 20·00 | 22·43 | 380 | 34·51 | 5 | ·45 |
| 21,201 | 14,598 | 4,133 | 19,186 | 959 | 657 | 90·50 | 68·50 | 25·29 | 27,500 | 35·04 | 79 | ·11 |
| 23,057 | 15,756 | 4,528 | 20,996 | 1,569 | 1,090 | 91·06 | 69·47 | 26·37 | 30,068 | 35·93 | 106 | ·13 |
| 2,009 | 1,427 | 476 | 1,912 | 22 | 18 | 95·27 | 81·82 | 17·33 | 2,816 | 25·28 | 80 | ·72 |
| 1,446 | 939 | 366 | 1,340 | 518 | 346 | 92·73 | 66·80 | 38·69 | 2,182 | 50·08 | 4 | ·09 |
| 178 | 120 | 54 | 175 | 1 | 1 | 98·31 | 100·00 | 18·19 | 314 | 32·45 | ... | ... |
| 20,507 | 14,629 | 4,137 | 19,435 | 337 | 272 | 94·80 | 80·71 | 24·75 | 23,836 | 28·69 | 109 | ·13 |
| 222 | 160 | 34 | 195 | 1,003 | 658 | ... | ... | | | | | |
| 24,362 | 17,275 | 5,067 | 23,057 | 1,881 | 1,295 | 94·68 | 68·85 | 24·57 | 29,148 | 29·29 | 193 | ·19 |
| 1,719 | 859 | 696 | 1,691 | 292 | 292 | 98·37 | 100·00 | 26·34 | 2,169 | 28·82 | 36 | ·48 |
| 699 | 481 | 183 | 681 | 32 | 25 | 97·42 | 48·13 | 29·12 | 776 | 32·01 | 13 | ·54 |
| 602 | 447 | 136 | 586 | 1 | 1 | 97·01 | 100·00 | 18·11 | 579 | 19·42 | 2 | ·06 |
| 15,482 | 9,785 | 3,452 | 14,173 | 1,556 | 1,054 | 91·55 | 67·74 | 27·96 | 21,115 | 35·84 | 43 | ·08 |
| 1,269 | 1,055 | 150 | 1,230 | 2 | 2 | 96·93 | 100·00 | | | | | |
| 19,771 | 12,627 | 4,617 | 18,361 | 1,883 | 1,374 | 92·97 | 72·96 | 27·37 | 24,639 | 34·19 | 99 | ·74 |

Statement No. I, showing Particulars

| Number. | Circles and Districts. | Population of Districts according to Census of 1901. | Average population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 |
| | THE CENTRAL REGISTRATION DISTRICT—*continued.* | | | | Males. | Females. | Total. | |
| | SÁTÁRA COLLECTORATE— | | | | | | | |
| 38 | Karád Town, Local Fund ... | 11,499 | 31,069 | ... | P. 124<br>R. 7 | 118<br>... | 242<br>7 | 249 |
| 39 | Wái do. do. ... | 13,989 | 6,994 | ... | P. 107<br>R. 5 | 98<br>10 | 205<br>15 | 220 |
| 40 | Sátára do. Municipal ... | 22,115 | 26,939 | 1 | P. 254<br>R. 548 | 223<br>4 | 477<br>552 | 1,027 |
| 41 | In the 12 Rural Circles. Local Fund ... / Municipal ... | 1,098,956 | 228 | 19 | P. 9,985<br>R. 202<br>P. 33<br>R. ... | 9,445<br>39<br>36<br>2 | 19,430<br>241<br>69<br>2 | 1,035<br>71 |
| | Total ... | 1,146,559 | 238 | 20 | P. 10,503<br>R. 762 | 9,920<br>55 | 20,423<br>817 | 1,062 |
| | RATNÁGIRI COLLECTORATE— | | | | | | | |
| 42 | Vengurla Town, Municipal ... | 19,018 | 6,339 | 1 | P. 217<br>R. 19 | 158<br>7 | 375<br>26 | 401 |
| 43 | Ratnágiri do. Local Fund ... | 16,094 | 3,798 | ... | P. 92<br>R. 1 | 59<br>1 | 151<br>2 | 153 |
| 44 | In the 8 Rural Circles. Local Fund... / Municipal ... | 1,132,815 | 289 | 15 | P. 11,167<br>R. 374<br>P. 241<br>R. 6 | 10,667<br>421<br>242<br>... | 21,834<br>795<br>483<br>6 | 1,509<br>489 |
| | Total ... | 1,167,927 | 292 | 16 | P. 11,717<br>R. 400 | 11,126<br>429 | 22,843<br>829 | 1,480 |
| | NATIVE STATES— | | | | | | | |
| 45 | Akalkot... ... ... ... | 82,047 | 165 | 1 | P. 925<br>R. 121 | 970<br>19 | 1,895<br>140 | 2,035 |
| 46 | Aundh (Pant Pratinidhi) ... | 63,921 | 143 | 2 | P. 559<br>R. ... | 593<br>... | 1,152<br>... | 576 |
| | TOTAL BY ESTABLISHMENTS | IN THE | CENTRAL | REGI | STRATION | DISTRIC | T. | |
| | Cantonment ... ... ... | 43,574 | 5,386 | 2 | P. 736<br>R. 493 | 709<br>25 | 1,445<br>518 | 982 |
| | Municipal ... ... ... ... | 326,481 | 44,479 | 8 | P. 4,983<br>R. 2,284 | 4,547<br>254 | 9,530<br>2,538 | 1,509 |
| | Local Fund ... ... ... | 4,498,433 | 175 | 74 | P. 50,526<br>R. 2,248 | 48,943<br>1,675 | 99,469<br>3,923 | 1,397 |
| | Native States ... ... ... | 145,968 | ... | 3 | P. 1,484<br>R. 121 | 1,563<br>19 | 3,047<br>140 | 1,062 |
| | Total ... | 5,014,456 | 186 | 87 | P. 5,7729<br>R. 5,146 | 55,762<br>1,973 | 113,491<br>7,119 | 1,386 |
| | THE SOUTHERN REGISTRATION DISTRICT. | | | | | | | |
| | BELGAUM COLLECTORATE— | | | | | | | |
| 47 | Gokák Town, Municipal ... | 9,860 | 25,282 | 1 | P. 135<br>R. 30 | 126<br>3 | 261<br>33 | 294 |
| 48 | Athni do. do. ... | 11,107 | 12,073 | | P. 155<br>R. 44 | 164<br>... | 319<br>44 | 363 |
| 49 | Belgaum do. do. ... | 26,237 | 58,304 | 1 | P. 563<br>R. 273 | 300<br>10 | 863<br>283 | 1,146 |
| 50 | Do. Cantonment ... ... | 10,641 | ... | | P. 39<br>R. 120 | 46<br>16 | 85<br>136 | 221 |
| 51 | In the 7 Rural Circles, Local Fund. | 936,131 | 201 | 17 | P. 9,984<br>R. 1,770 | 9,771<br>372 | 19,755<br>2,142 | 1,288 |
| | Total ... | 993,976 | 214 | 19 | P. 10,876<br>R. 2,237 | 10,407<br>401 | 21,283<br>2,638 | 1,259 |

of Vaccination, &c.—*continued.*

| Primary Vaccinations. | | | | Re-vaccination. | | Percentage of Successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | Under 1 year. | Over 1 and under 6 years. | Total of all ages. | | | | | | | | | |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 242 | 181 | 44 | 225 | 7 | 6 | 92·98 | 85·71 | 20·09 | 277 | 24·07 | ... | ... |
| 205 | 126 | 71 | 197 | 15 | 6 | 96·10 | 40·00 | 15·23 | 298 | 21·30 | 4 | ·29 |
| 477 | 258 | 137 | 409 | 552 | 142 | 85·74 | 25·72 | 24·92 | 1,044 | 47·21 | 1 | ·05 |
| 19,431 | 14,821 | 3,210 | 18,125 | 241 | 161 | 93·28 | 66·80 | ... | ... | ... | 48 | ·04 |
| 69 | 49 | 14 | 63 | 2 | 1 | 91·30 | 50·00 | 16·70 | 31,360 | 28·54 | | |
| 20,424 | 15,435 | 3,476 | 19,019 | 817 | 316 | 93·13 | 38·68 | 16·86 | 32,979 | 28·76 | 53 | ·05 |
| 375 | 263 | 83 | 360 | 26 | 13 | 96·00 | 50·00 | 19·61 | 292 | 15·35 | 1 | ·05 |
| 151 | 78 | 49 | 128 | 2 | 1 | 84·77 | 50·00 | 8·02 | 426 | 26·47 | 14 | ·87 |
| 21,854 | 14,444 | 6,175 | 20,943 | 795 | 404 | 95·92 | 50·82 | ... | ... | ... | 259 | ·23 |
| 483 | 326 | 138 | 471 | 6 | 6 | 96·32 | 100·00 | 19·27 | 27,207 | 24·02 | | |
| 22,863 | 15,111 | 6,445 | 21,902 | 829 | 424 | 95·88 | 51·15 | 19·12 | 27,925 | 23·90 | 274 | ·23 |
| 1,895 | 1,122 | 519 | 1,705 | 140 | 80 | 89·97 | 57·14 | 21·76 | 2,082 | 25·51 | ... | ... |
| 1,153 | 789 | 288 | 1,089 | ... | ... | 94·53 | ... | 17·04 | 1,502 | 23·53 | ... | ... |
| 1,446 | 939 | 366 | 1,340 | 518 | 346 | 92·73 | 68·73 | 38·69 | 2,182 | 43·77 | 4 | ·09 |
| 9,532 | 6,273 | 2,409 | 9,163 | 2,538 | 1,589 | 96·15 | 62·61 | 27·66 | 12,669 | 33·02 | 155 | ·47 |
| 99,499 | 68,992 | 21,358 | 92,832 | 3,923 | 2,564 | 93·33 | 65·36 | 21·50 | 129,910 | 29·33 | 566 | ·12 |
| 3,048 | 1,911 | 807 | 2,794 | 140 | 80 | 91·70 | 57·14 | 19·69 | 3,576 | 24·50 | ... | ... |
| 113,525 | 78,115 | 24,940 | 106,129 | 7,119 | 4,579 | 93·51 | 64·32 | 22·07 | 148,337 | 29·58 | 725 | ·14 |
| 262 | 192 | 35 | 230 | 33 | 12 | 88·12 | 36·36 | 24·54 | 364 | 36·91 | ... | ... |
| 322 | 255 | 27 | 283 | 44 | 22 | 88·71 | 50·00 | 27·46 | 441 | 39·70 | 7 | ·63 |
| 866 | 394 | 174 | 803 | 283 | 247 | 93·05 | 87·28 | 40·02 | 940 | 35·83 | 22 | ·38 |
| 86 | 67 | 15 | 82 | 136 | 43 | 96·47 | 31·86 | 11·75 | 177 | 16·63 | 11 | 1·03 |
| 19,784 | 14,779 | 2,585 | 17,598 | 2,142 | 1,271 | 89·09 | 59·34 | 20·16 | 28,928 | 66·33 | 105 | ·24 |
| 21,320 | 15,687 | 2,836 | 18,996 | 2,638 | 1,595 | 89·25 | 60·46 | 20·72 | 30,850 | 31·04 | 145 | ·15 |

Statement No. I, showing Particulars

| Number. | Circles and Districts. | Population of Districts according to Census of 1901. | Average population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 |
| | THE SOUTHERN REGISTRATION DISTRICT—*continued.* | | | | Males. | Females. | Total. | |
| | DHA'RWA'R COLLECTORATE— | | | | | | | |
| 52 | Dhárwár Town, Municipal ... | 31,279 | 27,199 | 1 | P. 723<br>R. 399 | 611<br>29 | 1,334<br>428 | 1,762 |
| 53 | Hubli do. do. ... | 60,214 | 51,028 | 1 | P. 918<br>R. 119 | 871<br>14 | 1,789<br>133 | 1,922 |
| 54 | Gadg-Bettigeri Town do. ... | 30,652 | 109,477 | 1 | P. 473<br>R. 68 | 441<br>26 | 914<br>94 | 1,008 |
| 55 | Ránebennur Town, Local Fund. | 14,851 | 40,138 | 1 | P. 242<br>R. 56 | 233<br>5 | 475<br>61 | 536 |
| 56 | In the 14 Rural Circles, Local Fund, | 976,302 | 237 | 18 | P. 12,224<br>R. 2,000 | 11,585<br>115 | 23,809<br>2,115 | 1,440 |
| | Total ... | 1,113,298 | 242 | 22 | P. 14,580<br>R. 2,642 | 13,741<br>189 | 28,321<br>2,831 | 1,416 |
| | BIJA'PUR COLLECTORATE— | | | | | | | |
| 57 | Bijápur Town, Municipal ... | 23,811 | 11,178 | 1 | P. 555<br>R. 191 | 434<br>43 | 989<br>234 | 1,223 |
| 58 | Bágalkot do. do. ... | 19,020 | 174 | 1 | P. 295<br>R. 85 | 288<br>1 | 583<br>86 | 669 |
| 59 | Kaládgi do. Local Fund ... | 4,950 | 42,250 | ... | P. 39<br>R. 21 | 30<br>... | 69<br>21 | 90 |
| 60 | In the 8 Rural Circles, Local Fund. | 687,654 | 122 | 11 | P. 9,738<br>R. 3,089 | 9,331<br>697 | 19,069<br>3,786 | 2,078 |
| | Total ... | 735,435 | 129 | 13 | P. 10,627<br>R. 3,386 | 10,083<br>741 | 20,710<br>4,127 | 1,911 |
| | KA'NARA COLLECTORATE— | | | | | | | |
| 61 | Kárwár Town, Municipal ... | 16,847 | 1,431 | 1 | P. 472<br>R. 197 | 240<br>1 | 712<br>198 | 910 |
| 62 | Kumta do. Local Fund ... | 10,818 | 1,472 | 1 | P. 206<br>R. 34 | 183<br>17 | 389<br>51 | 440 |
| 63 | In the 11 Rural Circles, Local Fund. | 426,825 | 109 | 14 | P. 6,545<br>R. 1,811 | 5,877<br>1,015 | 12,422<br>2,826 | 1,089 |
| | Total ... | 454,490 | 115 | 16 | P. 7,223<br>R. 2,042 | 6,300<br>1,033 | 13,523<br>3,075 | 1,037 |
| | SOUTHERN MARÁTHA JÁGHIRS— | | | | | | | |
| 64 | Sángli ... ... ... ... | 226,128 | 203 | 8 | P. 2,491<br>R. 972 | 2,443<br>345 | 4,934<br>1,317 | 781 |
| 65 | Jamkhandi ... ... ... | 105,357 | 201 | 2 | P. 1,008<br>R. 94 | 1,033<br>12 | 2,041<br>106 | 1,073 |
| 66 | Miraj (Senior) ... ... ... | 81,467 | 240 | 2 | P. 613<br>R. 85 | 650<br>3 | 1,263<br>88 | 675 |
| 67 | Do. (Junior) ... ... ... | 35,806 | 169 | 1 | P. 413<br>R. 127 | 339<br>1 | 752<br>128 | 880 |
| 68 | Kurundvád (Senior) ... ... | 42,474 | 229 | 1 | P. 269<br>R. 146 | 232<br>58 | 501<br>204 | 705 |
| 69 | Do. (Junior) ... ... | 34,003 | 298 | 1 | P. 402<br>R. 74 | 367<br>4 | 769<br>78 | 847 |
| 70 | Mudhol ... ... ... ... | 63,001 | 171 | 1 | P. 575<br>R. 68 | 587<br>22 | 1,162<br>90 | 1,252 |
| 71 | Rámdurg ... ... ... | 37,848 | 224 | 1 | P. 467<br>R. 133 | 469<br>32 | 936<br>165 | 1,101 |
| 72 | Jath and Daphlápur States ... | 68,665 | 69 | 2 | P. 999<br>R. 245 | 1,006<br>284 | 2,005<br>529 | 1,267 |
| | Total ... | 694,749 | 174 | 19 | P. 7,237<br>R. 1,944 | 7,126<br>761 | 14,363<br>2,705 | 898 |
| | UNDER THE DHÁRWÁR AGENCY STATE— | | | | | | | |
| 73 | Savanur ... ... ... ... | 18,446 | 263 | 1 | P. 292<br>R. 49 | 294<br>12 | 586<br>61 | 647 |
| 74 | Kolhápur ... ... ... ... | 910,011 | 319 | 13 | P. 6,232<br>R. 3,384 | 6,065<br>948 | 12,297<br>4,332 | 1,279 |
| | TOTALS BY ESTABLISHMENTS IN THE SOUTHERN REGISTRATION DISTRICT. | | | | | | | |
| | Municipal ... ... ... | 239,668 | 10,395 | 8 | P. 4,328<br>R. 1,526 | 3,521<br>143 | 7,849<br>1,669 | 1,189 |
| | Local Fund ... ... ... | 3,057,531 | 161 | 62 | P. 38,978<br>R. 8,781 | 37,010<br>2,221 | 75,988<br>11,002 | 1,403 |
| | Native States ... ... ... | 1,623,206 | 348 | 33 | P. 13,761<br>R. 5,377 | 13,485<br>1,721 | 27,246<br>7,098 | 1,041 |
| | Grand Total ... | 4,920,405 | 193 | 103 | P. 57,067<br>R. 15,684 | 54,016<br>4,085 | 111,083<br>19,769 | 1,270 |

of Vaccination, &c.—*continued.*

| Primary Vaccinations. | | | | Re-vaccination. | | Percentage of successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | Under 1 year. | Over 1 and under 6 years. | Total of all ages. | | | | | | | | | |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 1,334 | 828 | 190 | 1,143 | 428 | 193 | 85·68 | 45·09 | 42·71 | 1,375 | 43·96 | 1 | ·03 |
| 1,789 | 1,535 | 173 | 1,728 | 133 | 86 | 96·59 | 64·66 | 30·13 | 1,731 | 28·75 | 12 | ·20 |
| 920 | 692 | 141 | 847 | 94 | 69 | 92·67 | 73·40 | 29·88 | 951 | 31·03 | 3 | ·10 |
| 475 | 390 | 60 | 454 | 61 | 42 | 95·58 | 68·85 | 33·47 | 462 | 31·11 | 9 | ·61 |
| 23,810 | 18,143 | 3,546 | 22,099 | 2,115 | 1,190 | 92·82 | 52·43 | 23·85 | 25,763 | 26·39 | 239 | ·24 |
| 28,328 | 21,588 | 4,110 | 26,271 | 2,831 | 1,580 | 92·76 | 55·81 | 25·02 | 30,282 | 27·20 | 264 | ·24 |
| 989 | 590 | 98 | 876 | 234 | 185 | 88·57 | 79·06 | 44·56 | 907 | 38·09 | 3 | ·13 |
| 583 | 382 | 101 | 484 | 86 | 33 | 83·02 | 38·37 | 27·18 | 598 | 31·44 | ... | ... |
| 69 | 59 | 6 | 65 | 21 | 11 | 94·20 | 52·38 | 15·35 | 140 | 28·28 | 1 | ·10 |
| 19,080 | 14,713 | 2,779 | 17,867 | 3,786 | 2,517 | 63·69 | 66·48 | 29·64 | 24,851 | 36·14 | 103 | ·15 |
| 20,721 | 15,744 | 2,984 | 19,292 | 4,127 | 2,746 | 93·15 | 66·54 | 29·97 | 26,496 | 36·16 | 107 | ·15 |
| 712 | 218 | 140 | 567 | 198 | 73 | 79·63 | 36·86 | 37·99 | 682 | 40·48 | 13 | ·77 |
| 339 | 163 | 187 | 369 | 51 | 18 | 94·86 | 35·29 | 35·77 | 314 | 29·03 | ... | ... |
| 12,425 | 5,506 | 4,177 | 11,257 | 2,826 | 2,079 | 90·62 | 73·57 | 31·24 | 12,457 | 29·19 | 124 | ·29 |
| 13,526 | 5,887 | 4,504 | 12,193 | 3,075 | 2,170 | 90·16 | 70·57 | 31·60 | 13,453 | 29·60 | 137 | ·30 |
| 4,937 | 3,703 | 469 | 4,183 | 1,317 | 598 | 84·78 | 45·41 | 20·97 | 6,101 | 26·98 | ... | ... |
| 2,043 | 1,532 | 463 | 2,015 | 106 | 95 | 98·73 | 89·62 | 20·03 | 3,563 | 33·82 | ... | ... |
| 1,263 | 1,047 | 196 | 1,251 | 88 | 76 | 99·05 | 86·36 | 16·29 | 2,445 | 30·01 | ... | ... |
| 752 | 565 | 172 | 737 | 128 | 104 | 98·01 | 81·25 | 23·49 | 1,018 | 28·43 | ... | ... |
| 501 | 362 | 48 | 422 | 204 | 123 | 84·23 | 60·29 | 12·83 | 1,245 | 29·31 | ... | ... |
| 769 | 564 | 132 | 696 | 78 | 37 | 90·51 | 47·44 | 21·56 | 727 | 21·38 | ... | ... |
| 1,162 | 892 | 224 | 1,125 | 90 | 62 | 96·82 | 60·89 | 18·84 | 1,933 | 30·68 | ... | ... |
| 936 | 603 | 246 | 869 | 165 | 47 | 92·84 | 20·48 | 24·20 | 1,118 | 29·54 | ... | ... |
| 2,005 | 1,463 | 263 | 1,796 | 529 | 311 | 89·58 | 58·79 | 30·68 | ... | ... | ... | ... |
| 14,366 | 10,731 | 2,213 | 13,094 | 2,705 | 1,453 | 91·16 | 53·72 | 20·94 | 18,150 | 26·18 | ... | ... |
| 587 | 405 | 139 | 567 | 61 | 45 | 96·76 | 73·77 | 33·18 | 551 | 29·87 | ... | ... |
| 12,297 | 8,924 | 3,119 | 12,137 | 4,332 | 3,270 | 98·70 | 75·48 | 16·93 | 27,822 | 30·57 | ... | ... |
| 7,863 | 5,153 | 1,094 | 7,043 | 1,669 | 963 | 89·73 | 57·70 | 29·62 | 8,066 | 34·07 | 72 | ·30 |
| 76,032 | 53,753 | 13,340 | 69,709 | 11,002 | 7,128 | 91·74 | 64·79 | 25·38 | 92,916 | 30·39 | 581 | ·19 |
| 27,250 | 20,060 | 5,471 | 25,798 | 7,098 | 4,768 | 94·68 | 67·17 | 18·83 | 46,523 | 28·66 | ... | ... |
| 111,145 | 78,966 | 19,905 | 102,550 | 19,769 | 12,859 | 92·32 | 65·05 | 23·46 | 147,505 | 30·00 | 653 | ·13 |

Statement No. I, showing Particulars

| Number. | Circles and Districts. | Population of Districts according to Census of 1901. | Average population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number o Persons Vaccinated by each Vaccinator. |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 |
| | THE GUJARA'T REGISTRATION DISTRICT. | | | | Males. | Females. | Total. | |
| | SURAT COLLECTORATE— | | | | | | | |
| 75 | Bulsár Town, Local Fund ... | 12,857 | 5,143 | ... | P. 103<br>R. 1 | 80<br>... | 183<br>1 | 184 |
| 76 | Surat City, Municipal ... | 119,306 | 39,769 | 2 | P. 1,562<br>R. 115 | 1,520<br>10 | 3,082<br>125 | 1,604 |
| 77 | In the 8 Rural Circles, Local Fund ... ... ... ... | 504,854 | 306 | 9 | P. 4,470<br>R. 473 | 4,312<br>98 | 8,782<br>571 | 1,039 |
| | Total ... | 637,017 | 385 | 11 | P. 6,135<br>R. 589 | 5,912<br>108 | 12,047<br>697 | 1,159 |
| | BROACH COLLECTORATE— | | | | | | | |
| 78 | Broach City, Municipal ... | 42,896 | 25,533 | 1 | P. 441<br>R. 25 | 466<br>1 | 907<br>26 | 933 |
| 79 | Jambusar Town, Local Fund ... | 10,181 | 189 | ... | P. 116<br>R. 2 | 119<br>... | 235<br>2 | 237 |
| 80 | In the 6 Rural Circles, Local Fund ... ... ... ... | 238,686 | 163 | 5 | P. 2,244<br>R. 437 | 2,111<br>196 | 4,355<br>633 | 998 |
| | Total ... | 291,763 | 199 | 6 | P. 2,801<br>R. 464 | 2,696<br>197 | 5,497<br>661 | 1,026 |
| | KAIRA COLLECTORATE— | | | | | | | |
| 81 | Kapadvanj Town, Local Fund. | 15,405 | 66,978 | ... | P. 142<br>R. 1 | 116<br>1 | 258<br>2 | 260 |
| 82 | Nadiád Town, Municipal ... | 31,435 | 95,257 | 1 | P. 255<br>R. 3 | 233<br>... | 488<br>3 | 491 |
| 83 | Borsad Town, Local Fund ... | 13,001 | 68,426 | ... | P. 152<br>R. 14 | 121<br>7 | 273<br>21 | 294 |
| 84 | Kaira do. do. ... | 10,392 | 37,114 | ... | P. 82<br>R. 7 | 72<br>... | 154<br>7 | 161 |
| 85 | In the 7 Rural Circles, Local Fund ... ... ... ... | 646,099 | 405 | 10 | P. 5,657<br>R. 386 | 4,531<br>39 | 10,188<br>425 | 1,061 |
| | Total ... | 716,332 | 449 | 11 | P. 6,288<br>R. 411 | 5,073<br>47 | 11,361<br>458 | 1,074 |
| | PANCH MAHA'LS COLLECTORATE— | | | | | | | |
| 86 | Godhra Town, Local Fund ... | 20,915 | 123,029 | ... | P. 278<br>R. 9 | 274<br>... | 552<br>9 | 561 |
| 87 | Dohad do. do. ... | 13,990 | 82,294 | ... | P. 122<br>R. 18 | 96<br>11 | 218<br>29 | 247 |
| 88 | In the 5 Rural Circles, Local Fund ... ... ... ... | 226,115 | 141 | 6 | P. 1,639<br>R. 121 | 1,588<br>50 | 3,227<br>171 | 566 |
| | Total ... | 261,020 | 162 | 6 | P. 2,039<br>R. 148 | 1,958<br>61 | 3,997<br>209 | 701 |
| | AHMEDABAD COLLECTORATE— | | | | | | | |
| 89 | Dholka Town, Local Fund ... | 14,971 | 19,961 | ... | P. 180<br>R. 1 | 171<br>1 | 351<br>2 | 353 |
| 90 | Ahmedabad City, Municipal ... | 181,774 | 82,625 | 3 | P. 2,063<br>R. 224 | 1,819<br>6 | 3,882<br>230 | 1,371 |
| 91 | Ahmedabad Cantonment ... | 4,115 | ... | ... | P. 17<br>R. ... | 26<br>... | 43<br>... | 43 |
| 92 | Gadag Town, Local Fund ... | 4,798 | 6,397 | ... | P. 18<br>R. ... | 19<br>... | 37<br>... | 37 |
| 93 | Viramgám Town do. ... | 18,952 | 31,068 | ... | P. 228<br>R. 2 | 244<br>... | 472<br>2 | 474 |
| 94 | In the 7 Rural Circles, Local Fund ... ... ... ... | 571,357 | 150 | 12 | P. 4,282<br>R. 407 | 4,001<br>101 | 8,283<br>508 | 733 |
| | Total ... | 795,967 | 209 | 15 | P. 6,788<br>R. 634 | 6,280<br>108 | 13,068<br>742 | 921 |
| | NATIVE STATES— | | | | | | | |
| 95 | Rewa Kántha ... ... ... | 473,462 | 98 | 16 | P. 3,703<br>R. 180 | 3,368<br>86 | 7,071<br>266 | 459 |
| 96 | Mahi Kántha ... ... ... | 192,988 | 118 | 4 | P. 1,246<br>R. 83 | 1,157<br>37 | 2,403<br>120 | 631 |
| 97 | Surat Agency — Dharampor . | 100,430 | 126 | 3 | P. 941<br>R. 62 | 888<br>24 | 1,829<br>86 | 638 |
| 98 | Surat Agency — Bánsda ... | 40,382 | 188 | 1 | P. 254<br>R. ... | 247<br>... | 501<br>... | 501 |
| 99 | Surat Agency — Sachin, Local Fund ... | 20,530 | 489 | ... | P. 158<br>R. 2 | 156.<br>... | 314<br>2 | 316 |
| 100 | Jambughoda, Local Fund ... | 5,603 | 39 | ... | P. 63<br>R. 1 | 50<br>... | 113<br>1 | 114 |

of Vaccination, &c.—*continued.*

| Primary Vaccinations. | | | | Re-vaccination. | | Percentage of Successful Cases. | | Persons Successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | Under 1 year. | Over 1 and under 6 years. | Total of all ages. | | | | | | | | | |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 183 | 118 | 49 | 167 | 1 | 1 | 91·26 | 100·00 | 13·07 | 290 | 22·56 | 3 | ·23 |
| 3,090 | 2,451 | 505 | 2,974 | 125 | 54 | 96·50 | 43·20 | 25·38 | 3,275 | 27·45 | 46 | ·39 |
| 8,817 | 6,873 | 1,639 | 8,556 | 571 | 463 | 97·43 | 81·09 | 17·86 | 15,370 | 30·44 | 64 | ·13 |
| 12,090 | 9,442 | 2,193 | 11,697 | 697 | 518 | 97·09 | 74·32 | 19·18 | 18,935 | 29·72 | 113 | ·18 |
| 907 | 712 | 171 | 889 | 26 | 16 | 98·02 | 61·54 | 21·10 | 1,342 | 31·28 | 18 | ·42 |
| 237 | 155 | 69 | 228 | 2 | 2 | 97·02 | 100·00 | 22·59 | 368 | 36·15 | ... | ... |
| 4,363 | 3,469 | 705 | 4,218 | 633 | 366 | 96·85 | 57·82 | 19·21 | 7,476 | 31·32 | 69 | ·29 |
| 5,507 | 4,336 | 945 | 5,335 | 661 | 384 | 97·05 | 58·09 | 19·60 | 9,186 | 31·48 | 87 | ·30 |
| 259 | 212 | 44 | 256 | 2 | ... | 99·22 | ... | 16·62 | 417 | 27·07 | ... | ... |
| 489 | 439 | 38 | 477 | 3 | 2 | 97·75 | 66·67 | 15·24 | 935 | 29·74 | 9 | ·29 |
| 273 | 244 | 13 | 259 | 21 | 15 | 94·87 | 71·43 | 21·08 | 554 | 42·61 | 12 | ·92 |
| 154 | 120 | 30 | 151 | 7 | 1 | 98·05 | 14·29 | 14·63 | 383 | 36·85 | 1 | ·10 |
| 10,206 | 8,768 | 1,117 | 9,896 | 425 | 180 | 97·13 | 42·35 | 15·60 | 21,691 | 33·57 | 35 | ·05 |
| 11,381 | 9,783 | 1,242 | 11,039 | 458 | 198 | 97·17 | 43·23 | 15·69 | 23,980 | 33·48 | 57 | ·08 |
| 553 | 418 | 94 | 514 | 9 | 8 | 93·12 | 88·89 | 24·96 | 586 | 28·02 | 18 | ·86 |
| 218 | 150 | 53 | 203 | 29 | 17 | 93·12 | 58·62 | 15·73 | 398 | 27·73 | 6 | ·43 |
| 3,234 | 2,346 | 689 | 3,069 | 171 | 123 | 95·10 | 71·93 | 14·12 | 8,779 | 38·83 | 30 | ·13 |
| 4,005 | 2,914 | 836 | 3,786 | 209 | 148 | 94·72 | 70·81 | 15·07 | 9,753 | 37·36 | 54 | ·21 |
| 351 | 315 | 9 | 324 | 2 | 2 | 92·31 | 100·00 | 21·78 | 557 | 37·21 | 3 | ·20 |
| 3,883 | 3,214 | 440 | 3,662 | 230 | 42 | 94·33 | 18·26 | 20·38 | 4,796 | 26·38 | 14 | ·08 |
| 48 | 14 | 13 | 27 | ... | ... | 62·79 | ... | 6·56 | 44 | 10·69 | ... | ... |
| 37 | 21 | 8 | 29 | ... | ... | 78·38 | ... | 6·04 | 221 | 46·06 | 1 | ·21 |
| 478 | 343 | 36 | 381 | 2 | ... | 91·94 | ... | 20·10 | 644 | 33·98 | 1 | ·05 |
| 8,298 | 6,606 | 1,053 | 7,777 | 508 | 309 | 93·89 | 60·82 | 14·15 | 19,255 | 33·70 | 40 | ·07 |
| 13,095 | 10,513 | 1,559 | 12,200 | 742 | 353 | 93·36 | 47·57 | 15·77 | 25,517 | 32·06 | 59 | ·07 |
| 7,080 | 3,882 | 2,707 | 6,904 | 266 | 229 | 99·05 | 86·09 | 15·07 | 21,024 | 44·40 | ... | ... |
| 2,433 | 1,780 | 543 | 2,331 | 120 | 91 | 97·00 | 75·83 | 12·55 | 6,076 | 31·48 | ... | ... |
| 1,835 | 1,336 | 353 | 1,774 | 86 | 74 | 96·99 | 86·05 | 18·60 | 3,992 | 39·75 | ... | ... |
| 501 | 435 | 39 | 476 | ... | ... | 95·01 | ... | 11·79 | 1,309 | 32·41 | ... | ... |
| 314 | 225 | 70 | 298 | 2 | 2 | 94·90 | 100·00 | 14·61 | 555 | 27·03 | ... | ... |
| 115 | 33 | 72 | 108 | 1 | 1 | 95·57 | 100·00 | 19·45 | 252 | 44·98 | ... | ... |

Statement No. I, showing Particulars

| Number. | Circles and Districts. | Population of Districts according to Census of 1901. | Average population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. |
|---|---|---|---|---|---|---|---|---|
| | | | | | Males. | Females. | Total. | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 |
| | TOTAL BY ESTABLISHMENT IN GUJARA'T REGISTRATION DISTRICT. | | | | | | | |
| | Municipal ... ... ... | 375,411 | 52,068 | 7 | P. 4,321<br>R. 367 | 4,038<br>17 | 8,359<br>384 | 1,249 |
| | Local Fund ... ... ... | 2,348,706 | 228 | 42 | P. 19,934<br>R. 1,882 | 18,061<br>504 | 37,995<br>2,386 | 961 |
| | Native States ... ... ... | 807,262 | 108 | 24 | P. 6,144<br>R. 325 | 5,660<br>147 | 11,804<br>472 | 512 |
| | Cantonment ... ... ... | 4,115 | ... | ... | P. 17<br>R. ... | 26<br>... | 43<br>... | 43 |
| | Grand Total ... | 3,535,494 | 197 | 73 | P. 30,416<br>R. 2,574 | 27,485<br>668 | 58,201<br>3,242 | 842 |
| | THE SIND REGISTRATION DISTRICT. | | | | | | | |
| | KARÁCHI COLLECTORATE— | | | | | | | |
| 101 | Karáchi Town, Municipal ... | 116,663 | ... | 2 | P. 2,028<br>R. 772 | 1,967<br>170 | 3,995<br>942 | 2,468 |
| 102 | Tatta do. do. ... | 10,783 | ... | 1 | P. 216<br>R. ... | 138<br>... | 354<br>... | 354 |
| 103 | In the 14 Rural Circles, Local Fund ... ... ... | 480,382 | ... | 14 | P. 7,098<br>R. 1,214 | 6,144<br>688 | 13,212<br>1,902 | 1,080 |
| | Total ... | 607,828 | 42 | 17 | P. 9,342<br>R. 1,986 | 8,219<br>858 | 17,561<br>2,844 | 1,200 |
| | HYDERABAD COLLECTORATE— | | | | | | | |
| 104 | Hyderabad Town, Municipal ... | 69,378 | ... | 1 | P. 322<br>R. 53 | 284<br>... | 606<br>53 | 659 |
| 105 | In the 12 Rural Circles, Local Fund ... ... ... | 919,652 | ... | 12 | P. 10,685<br>R. 1,002 | 9,065<br>498 | 19,750<br>1,500 | 1,771 |
| | Tota ... | 989,030 | 119 | 13 | P. 1,1007<br>R. 1,055 | 9,349<br>498 | 20,356<br>1,553 | 1,685 |
| | THAR AND PÁRKAR DISTRICT. | | | | | | | |
| 106 | Umarkot Town, Local Fund ... | 4,924 | ... | ... | P. 63<br>R. 3 | 62<br>... | 125<br>3 | 128 |
| 107 | In the 8 Rural Circles, Local Fund ... ... ... | 358,970 | ... | 8 | P. 3,445<br>R. 376 | 2,833<br>701 | 6,278<br>1,077 | 919 |
| | Total ... | 363,894 | 266 | 8 | P. 3,508<br>R. 379 | 2,895<br>701 | 6,403<br>1,080 | 935 |
| | SHIKÁRPUR COLLECTORATE— | | | | | | | |
| 108 | Shikárpur Town, Municipal ... | 49,491 | ... | 1 | P. 749<br>R. 162 | 598<br>7 | 1,347<br>169 | 1,516 |
| 109 | Sukkur do. do. ... | 31,316 | ... | 1 | P. 427<br>R. 54 | 382<br>55 | 809<br>109 | 918 |
| 110 | Larkhána do. do. ... | 14,543 | ... | 1 | P. 304<br>R. 364 | 268<br>26 | 572<br>390 | 962 |
| 111 | Rohri do. do. ... | 9,537 | ... | 1 | P. 161<br>R. 23 | 138<br>14 | 299<br>37 | 336 |
| 112 | In the 14 Rural Circles, Local Fund ... ... ... ... | 913,226 | 125 | 16 | P. 13,862<br>R. 1,677 | 12,507<br>2,007 | 26,369<br>3,684 | 1,878 |
| | Total ... | 1,018,113 | 125 | 20 | P. 15,503<br>R. 2,280 | 13,893<br>2,109 | 29,396<br>4,389 | 1,689 |
| | UPPER SIND FRONTIER— | | | | | | | |
| 113 | Jacobabad Town and Cantonment, Local Fund ... ... | 10,787 | ... | 4 | P. 214<br>R. 366 | 205<br>11 | 419<br>377 | 796 |
| 114 | In the 4 Rural Circles, Local Fund ... ... ... ... | 221,258 | 89 | | P. 3,130<br>R. 322 | 2,910<br>428 | 6,040<br>750 | 1,698 |
| | Total ... | 232,045 | 89 | 4 | P. 3,344<br>R. 688 | 3,115<br>439 | 6,459<br>1,127 | 1,897 |
| | NATIVE STATE— | | | | | | | |
| 115 | Khairpur State ... ... ... | 199,313 | ... | 4 | P. 3,161<br>R. 151 | 2,912<br>67 | 6,073<br>218 | 1,573 |

of Vaccination, &c.—*continued.*

| Primary Vaccinations. | | | | Re-vaccination. | | Percentage of Successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total. | Successful. | | | Total. | Successful | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | Under 1 year. | Over 1 and under 6 years. | Total of all ages. | | | | | | | | | |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 8,369 | 6,816 | 1,154 | 8,002 | 384 | 114 | 95·73 | 29·69 | 24·28 | 10,348 | 27·56 | 87 | ·23 |
| 38,090 | 30,416 | 5,750 | 36,434 | 2,386 | 1,490 | 95·89 | 62·45 | 16·15 | 77,786 | 33·12 | 283 | ·12 |
| 11,849 | 7,483 | 3,642 | 11,485 | 472 | 394 | 97·30 | 83·47 | 14·72 | 32,401 | 40·14 | ... | ... |
| 48 | 14 | 13 | 27 | ... | ... | 62·79 | ... | 6·56 | 44 | 16·69 | ... | ... |
| 58,356 | 44,729 | 10,559 | 55,948 | 3,242 | 1,998 | 96·13 | 61·63 | 16·39 | 120,579 | 34·08 | 370 | ·10 |
| 4,165 | 2,969 | 596 | 3,892 | 944 | 637 | 97·62 | 67·62 | 40·12 | 5,762 | 78·35 | 72 | ·64 |
| 354 | 181 | 113 | 306 | ... | ... | 86·44 | ... | 28·38 | 356 | 33·01 | ... | ... |
| 13,229 | 6,059 | 4,733 | 11,344 | 1,902 | 1,062 | 85·86 | 55·84 | 25·83 | 14,095 | 29·32 | 81 | ·17 |
| 17,748 | 9,209 | 5,442 | 15,542 | 2,846 | 1,699 | 88·50 | 59·74 | 28·54 | 20,213 | 33·46 | 153 | ·25 |
| 607 | 411 | 126 | 540 | 53 | 22 | 89·11 | 41·51 | 8·17 | 1,481 | 21·52 | 32 | ·46 |
| 19,775 | 11,119 | 6,882 | 18,291 | 1,500 | 1,015 | 92·61 | 67·67 | 20·99 | 18,118 | 19·10 | 56 | ·06 |
| 20,382 | 11,530 | 7,008 | 18,831 | 1,553 | 1,037 | 92·51 | 66·77 | 20·10 | 19,599 | 19·29 | 88 | ·09 |
| 125 | 44 | 50 | 96 | 8 | ... | 76·80 | ... | 25·52 | 39 | 79·61 | 10 | 2·04 |
| 6,323 | 2,263 | 3,138 | 5,582 | 1,077 | 737 | 88·91 | 68·43 | 17·60 | 9,476 | 22·26 | 99 | ·28 |
| 6,448 | 2,307 | 3,188 | 5,678 | 1,080 | 737 | 88·68 | 68·24 | 17·63 | 9,515 | 28·14 | 109 | ·30 |
| 1,350 | 885 | 209 | 1,138 | 169 | 97 | 84·11 | 57·40 | 24·85 | 1,199 | 26·57 | 21 | ·42 |
| 809 | 528 | 48 | 578 | 109 | 22 | 71·45 | 20·18 | 19·42 | 1,506 | 42·28 | 4 | ·13 |
| 572 | 363 | 52 | 421 | 390 | 214 | 73·60 | 54·87 | 43·66 | 654 | 44·97 | 5 | ·34 |
| 299 | 240 | 26 | 266 | 37 | 23 | 88·96 | 62·16 | 30·30 | 402 | 42·15 | ... | ... |
| 26,381 | 20,128 | 3,899 | 24,171 | 3,684 | 1,957 | 91·66 | 53·12 | 28·61 | 27,458 | 30·07 | 62 | ·07 |
| 29,411 | 22,141 | 4,234 | 26,569 | 4,389 | 2,313 | 90·38 | 52·70 | 28·38 | 31,219 | 31·61 | 93 | ·09 |
| 425 | 180 | 111 | 296 | 377 | 177 | 70·64 | 46·95 | 44·09 | 186 | 17·34 | ... | ... |
| 6,044 | 3,882 | 1,475 | 5,427 | 750 | 491 | 89·09 | 65·47 | 26·75 | 5,659 | 25·38 | 24 | ·1 |
| 6,469 | 4,062 | 1,586 | 5,723 | 1,127 | 668 | 88·61 | 59·27 | 27·55 | 5,845 | 24·33 | 24 | ·0 |
| 6,093 | 3,782 | 1,878 | 5,749 | 218 | 139 | 94·66 | 63·76 | 29·54 | 5,345 | 26·82 | ... | ... |

Statement No. I, showing Particulars

| Number. | Circles and Districts. | Population of Districts according to Census of 1901. | Average population per Square Mile. | Average Number of Vaccinators employed throughout the Season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 |
| | | | | | Males. | Females. | Total. | |
| | TOTAL BY ESTABLISHMENT IN THE SIND REGISTRATION DISTRICT. | | | | | | | |
| | Municipal ... ... ... ... | 301,711 | ... | 8 | P. 4,207<br>R. 1,428 | 3,775<br>272 | 7,982<br>1,700 | 1,210 |
| | Local Fund ... ... ... ... | 2,909,199 | 68 | 54 | P. 38,497<br>R. 4,960 | 33,696<br>4,333 | 72,193<br>9,293 | 1,509 |
| | Native States ... ... ... | 199,313 | ... | 4 | P. 3,161<br>R. 151 | 2,912<br>67 | 6,073<br>218 | 1,573 |
| | Grand Total ... | 3,410,223 | 68 | 66 | P. 45,865<br>R. 6,539 | 40,383<br>4,672 | 86,248<br>11,211 | 1,477 |
| | ADEN. | | | | | | | |
| 116 | Aden Municipality ... ... ... | 43,974 | ... | 4 | P. 2,729<br>R. 88 | 586<br>1 | 3,315<br>89 | 851 |
| | TOTAL FOR THE BOMBAY PRESIDENCY. BY ESTABLISHMENTS. | | | | | | | |
| | Municipal... ... ... | 2,194,374 | ... | 48 | P. 29,079<br>R. 8,784 | 25,077<br>891 | 54,156<br>9,675 | 1,330 |
| | Cantonment ... ... | 53,805 | ... | 2 | P. 797<br>R. 494 | 797<br>25 | 1,594<br>519 | 1,056 |
| | Local Fund ... ... | 16,389,060 | ... | 306 | P. 186,718<br>R. 20,415 | 175,474<br>10,022 | 362,192<br>30,437 | 1,283 |
| | Native States ... ... | 2,938,866 | ... | 68 | P. 26,163<br>R. 6,240 | 25,119<br>2,164 | 51,282<br>8,404 | 878 |
| | In British Territory ... | 18,637,239 | ... | 356 | P. 216,594<br>R. 29,693 | 201,348<br>10,938 | 417,942<br>40,631 | 1,288 |
| | In Native States Territory | 2,938,866 | ... | 68 | P. 26,163<br>R. 6,240 | 25,119<br>2,164 | 51,282<br>8,404 | 878 |
| | GRAND TOTAL... ... | 21,576,105 | ... | 424 | P. 242,757<br>R. 35,933 | 226,467<br>13,102 | 469,224<br>49,035 | 1,222 |

of Vaccination, &c.—*concluded.*

| Primary Vaccinations. | | | | Re-vaccination. | | Percentage of Successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| | Under 1 year. | Over 1 and under 6 years. | Total, all ages. | | | | | | | | | |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 8,156 | 5,577 | 1,170 | 7,136 | 1,702 | 1,015 | 89·40 | 59·71 | 26·03 | 11,359 | 36·35 | 144 | ·46 |
| 72,302 | 43,675 | 20,288 | 65,207 | 9,293 | 5,439 | 90·32 | 58·53 | 24·42 | 75,031 | 26·00 | 322 | ·11 |
| 6,093 | 3,782 | 1,878 | 5,749 | 218 | 139 | 94·66 | 63·76 | 29·54 | 5,344 | 26·82 | ... | ... |
| 86,551 | 53,034 | 23,336 | 78,092 | 11,213 | 6,593 | 90·54 | 58·81 | 24·87 | 91,734 | 26·94 | 466 | ·14 |
| 3,315 | 176 | 433 | 1,889 | 89 | 54 | 56·98 | 60·68 | 44·18 | 2,262 | 51·44 | ... | ... |
| 54,389 | 36,123 | 9,425 | 48,672 | 9,677 | 4,231 | 89·87 | 43·73 | 24·18 | 62,689 | 28·56 | 1,292 | ·59 |
| 1,600 | 1,027 | 398 | 1,460 | 519 | 346 | 91·59 | 66·67 | 33·56 | 2,389 | 44·40 | 4 | ·07 |
| 362,595 | 250,409 | 75,781 | 333,390 | 30,437 | 18,991 | 92·05 | 62·39 | 21·50 | 472,185 | 28·81 | 3,259 | ·20 |
| 51,356 | 35,826 | 12,222 | 48,864 | 8,404 | 5,845 | 95·28 | 69·55 | 18·62 | 92,847 | 31·51 | ... | ... |
| 418,584 | 287,564 | 85,604 | 383,522 | 40,633 | 23,568 | 91·76 | 58·00 | 21·84 | 537,263 | 28·83 | 4,555 | ·24 |
| 51,356 | 35,826 | 12,222 | 48,864 | 8,404 | 5,845 | 95·28 | 69·55 | 18·62 | 92,847 | 31·51 | ... | ... |
| 469,940 | 323,390 | 97,826 | 432,386 | 49,037 | 29,413 | 92·15 | 59·98 | 21·40 | 630,110 | 29·24 | 4,555 | ·21 |

A.—VACCINE

Statement No. II, showing the Cost of the Department

| No. | Circles and Districts. | Expenditure. | | | | | | | | | | | | Total Pay of Establishment. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | European Supervising Officers. | Pay. | | Inspectors of Sanitation and Vaccination. | Pay. | | Vaccinators. | Pay. | | Clerks. | Pay. | | Peons, &c. | Pay. | | |
| | THE WESTERN REGISTRATION DISTRICT. | | Rs. | a. p. | | Rs. | a. p. | | Rs. | a. p. | | Rs. | a. p. | | Rs. | a. p. | Rs. a. p. |
| 1 | Administrative Charges... | 1 | 10,200 | 0 0 | 8 | 6,399 | 10 11 | ... | ..... | | 2 | 840 | 0 0 | 12 | 1,202 | 12 1 | 18,642 7 0 |
| 2 | Khándesh ... ... ... | ... | ..... | | ... | ..... | | 33 | 6,299 | 3 5 | ... | ..... | | 30 | 2,511 | 0 10 | 8,810 4 3 |
| 3 | Násik ... ... ... | ... | ..... | | ... | ..... | | 21 | 3,901 | 12 3 | ... | ..... | | 18 | 1,500 | 9 0 | 5,462 6 1 |
| 4 | Thána ... ... ... | ... | ..... | | ... | ..... | | 20 | 3,933 | 12 7 | ... | ..... | | 18 | 1,715 | 6 1 | 5,648 2 8 |
| | Kolába ... ... ... | ... | ..... | | ... | ..... | | 17 | 3,513 | 12 2 | ... | ..... | | 16 | 1,554 | 8 2 | 5,068 4 4 |
| | Total ... | 1 | 10,200 | 0 0 | 8 | 6,399 | 10 11 | 91 | 17,647 | 8 5 | 2 | 840 | 0 0 | 94 | 8,544 | 5 0 | 43,631 8 4 |
| | THE PRESIDENCY CIRCLE. | | | | | | | | | | | | | | | | |
| 5 | Bombay City ... ... | 1 | 4,200 | 0 0 | 2 | 1,500 | 0 0 | 8 | 2,160 | 0 0 | 5 | 2,040 | 0 0 | 20 | 2,952 | 0 0 | 12,852 0 0 |
| | THE CENTRAL REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | |
| 6 | Administrative Charges... | 1 | 5,367 | 5 0 | 6 | 4,738 | 0 0 | ... | ..... | | 2 | 830 | 0 0 | 10 | 995 | 0 0 | 11,930 5 0 |
| 7 | Ahmednagar ... ... | ... | ..... | | ... | ..... | | 16 | 3,192 | 12 0 | ... | ..... | | 15 | 1,277 | 9 0 | 4,470 5 0 |
| 8 | Poona ... ... ... | ... | ..... | | ... | ..... | | 20 | 4,174 | 0 0 | ... | ..... | | 19 | 1,634 | 0 0 | 5,808 0 0 |
| 9 | Sholápur ... ... ... | ... | ..... | | ... | ..... | | 16 | 3,300 | 0 0 | ... | ..... | | 15 | 1,344 | 0 0 | 4,644 0 0 |
| 10 | Sátára ... ... ... | ... | ..... | | ... | ..... | | 24 | 4,737 | 0 0 | ... | ..... | | 22 | 1,840 | 0 0 | 6,577 0 0 |
| | Ratnágiri ... ... ... | ... | ..... | | ... | ..... | | 17 | 3,137 | 0 0 | ... | ..... | | 15 | 1,411 | 8 0 | 4,548 8 0 |
| | Total ... | 1 | 5,367 | 5 0 | 6 | 4,738 | 0 0 | 93 | 18,540 | 12 0 | 2 | 830 | 0 0 | 96 | 8,502 | 1 0 | 37,978 2 0 |
| | THE SOUTHERN REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | |
| 11 | Administrative Charges... | 1 | 7,641 | 14 6 | 6 | 4,880 | 2 9 | ... | ..... | | 2 | 852 | 12 3 | 10 | 936 | 0 0 | 14,370 13 6 |
| 12 | Belgaum ... ... ... | ... | ..... | | ... | ..... | | 21 | 4,143 | 5 0 | ... | ..... | | 19 | 1,608 | 9 0 | 5,751 14 0 |
| 13 | Dhárwár ... ... ... | ... | ..... | | ... | ..... | | 25 | 5,240 | 5 2 | ... | ..... | | 23 | 1,944 | 0 0 | 7,184 5 2 |
| 14 | Bijápur ... ... ... | ... | ..... | | ... | ..... | | 14 | 3,529 | 3 1 | ... | ..... | | 13 | 1,117 | 0 0 | 4,046 2 1 |
| 15 | Kánara ... ... ... | ... | ..... | | ... | ..... | | 18 | 3,892 | 15 0 | ... | ..... | | 15 | 1,353 | 8 0 | 5,246 7 0 |
| 16 | Kolhápur ... ... ... | ... | ..... | | 1 | 1,210 | 0 0 | 15 | 2,689 | 14 2 | 1 | 240 | 0 0 | 15 | 1,002 | 0 0 | 5,141 14 2 |
| | Southern Marátha Jáhgirs. | ... | ..... | | 6 | 2,112 | 3 4 | 21 | 3,907 | 0 6 | 1 | 180 | 0 0 | 25 | 1,796 | 6 10 | 7,995 10 8 |
| | Total ... | 1 | 7,641 | 14 6 | 13 | 8,202 | 6 1 | 114 | 22,802 | 10 11 | 4 | 1,272 | 12 3 | 120 | 9,817 | 7 10 | 49,737 3 7 |
| | THE GUJARÁT REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | |
| 17 | Administrative Charges... | 1 | 3,541 | 2 6 | 5 | 4,080 | 0 0 | ... | ..... | | 2 | 840 | 0 0 | 9 | 861 | 6 10 | 9,322 9 4 |
| 18 | Surat... ... ... ... | ... | ..... | | ... | ..... | | 16 | 3,191 | 13 6 | ... | ..... | | 15 | 1,260 | 0 0 | 4,451 13 6 |
| 19 | Broach ... ... ... | ... | ..... | | ... | ..... | | 7 | 1,446 | 15 11 | ... | ..... | | 6 | 516 | 0 0 | 1,962 15 11 |
| 20 | Kaira ... ... ... | ... | ..... | | ... | ..... | | 12 | 2,431 | 10 7 | ... | ..... | | 11 | 921 | 0 0 | 3,352 10 7 |
| 21 | Panch Mahálś ... ... | ... | ..... | | ... | ..... | | 7 | 1,367 | 2 2 | ... | ..... | | 6 | 534 | 0 6 | 1,901 2 8 |
| 22 | Ahmedabad ... ... | ... | ..... | | ... | ..... | | 16 | 3,417 | 0 0 | ... | ..... | | 15 | 1,258 | 5 10 | 4,675 5 10 |
| 23 | Mahi Kántha Agency ... | ... | ..... | | 1 | 480 | 0 0 | 4 | 960 | 0 0 | ... | ..... | | 5 | 431 | 5 2 | 1,871 5 2 |
| | Rewa Kántha ,, ... | ... | ..... | | ... | ..... | | 16 | 3,055 | 0 0 | ... | ..... | | 16 | 1,182 | 12 0 | 4,237 12 0 |
| | Total ... | 1 | 3,541 | 2 6 | 6 | 4,560 | 0 0 | 78 | 15,869 | 10 2 | 2 | 840 | 0 0 | 83 | 6,964 | 14 4 | 31,775 11 0 |
| | THE SIND REGISTRATION DISTRICT. | | | | | | | | | | | | | | | | |
| 24 | Administrative Charges.. | 1 | 11,116 | 2 1 | 7 | 6,625 | 0 3 | ... | ..... | | 2 | 814 | 3 7 | 10 | 967 | 4 6 | 19,522 10 5 |
| 25 | Karáchi ... ... ... | ... | ..... | | ... | ..... | | 22 | 3,594 | 1 4 | ... | ..... | | 21 | 2,057 | 7 1 | 5,651 8 5 |
| 26 | Hyderabad ... ... ... | ... | ..... | | ... | ..... | | 14 | 3,187 | 10 3 | ... | ..... | | 13 | 1,223 | 1 4 | 4,410 11 7 |
| 27 | Thar and Párkar ... ... | ... | ..... | | ... | ..... | | 9 | 1,302 | 6 0 | ... | ..... | | 8 | 705 | 2 4 | 2,007 8 4 |
| 28 | Shikárpur ... ... ... | ... | ..... | | ... | ..... | | 21 | 4,590 | 7 9 | ... | ..... | | 21 | 1,912 | 2 4 | 6,502 10 1 |
| 29 | Upper Sind Frontier ... | ... | ..... | | ... | ..... | | 5 | 841 | 7 1 | ... | ..... | | 4 | 396 | 5 9 | 1,237 12 10 |
| | Native States ... ... | ... | ..... | | ... | ..... | | 5 | 1,476 | 4 0 | ... | ..... | | 5 | 470 | 3 1 | 1,946 7 1 |
| | Total ... | 1 | 11,116 | 2 1 | 7 | 6,625 | 0 3 | 76 | 14,992 | 4 5 | 2 | 814 | 3 7 | 82 | 7,731 | 10 5 | 41,279 4 9 |
| 30 | Aden... ... ... ... | ... | ..... | | ... | ..... | | 4 | 792 | 4 3 | ... | ..... | | 1 | 159 | 0 0 | 951 4 3 |
| | TOTAL FOR THE PRESIDENCY ... ... ... | 6 | 42,066 | 8 1 | 42 | 32,025 | 1 3 | 464 | 92,805 | 2 2 | 17 | 6,636 | 15 10 | 496 | 44,671 | 6 7 | 2,18,205 1 11 |

DEPARTMENT.

in the Bombay Presidency during the year 1901-1902.

| Travelling Allowances. | Contingencies. | Total Cost. | Paid from: Provincial Funds. | Local Funds. | Municipalities. | Native States. | Total. | Number of all successful vaccinations and re-vaccinations. | Average cost of each successful case. |
|---|---|---|---|---|---|---|---|---|---|
| Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | | Rs. a. p. |
| 4,988 14 3 | 690 13 3 | 24,322 2 6 | 24,322 2 6 | ..... | ..... | ..... | 24,322 2 6 | ... | ..... |
| 89 10 0 | 885 13 11 | 9,785 12 2 | 424 7 4 | 9,361 4 10 | ..... | ..... | 9,785 12 2 | 30,089 | 0 5 2 |
| 46 11 9 | 610 9 7 | 6,119 11 5 | ..... | 5,371 14 11 | 747 12 6 | ..... | 6,119 11 5 | 16,320 | 0 6 0 |
| 44 8 3 | 644 14 4 | 6,337 9 3 | ..... | 5,344 2 3 | 609 7 0 | 384 0 0 | 6,337 9 3 | 15,885 | 0 6 5 |
| 23 4 0 | 498 15 0 | 5,590 7 4 | ..... | 4,884 10 10 | ..... | 705 12 6 | 5,590 7 4 | 15,334 | 0 5 8 |
| 5,193 0 3 | 3,331 2 1 | 52,155 10 8 | 24,746 9 10 | 24,962 0 10 | 1,357 3 6 | 1,089 12 6 | 52,155 10 8 | 77,628 | 0 11 3 |
| 360 0 0 | 7,078 7 2 | 20,290 7 2 | 4,560 0 0 | ..... | 15,730 7 2 | ..... | 20,290 7 2 | 13,481 | 1 8 1 |
| 2,890 0 0 | 1,005 0 0 | 15,925 5 0 | 15,925 5 0 | ..... | ..... | ..... | 15,925 5 0 | ... | ..... |
| 44 6 0 | 468 0 0 | 4,982 11 0 | ..... | 4,295 11 0 | 687 0 0 | ..... | 4,982 11 0 | 22,036 | 0 3 7 |
| 19 0 0 | 1,264 4 0 | 7,091 4 0 | ..... | 4,635 0 0 | 2,456 4 0 | ..... | 7,091 4 0 | 24,352 | 0 4 8 |
| 81 0 0 | 446 8 0 | 5,171 8 0 | ..... | 3,539 8 0 | 1,268 0 0 | 364 0 0 | 5,171 8 0 | 21,520 | 0 5 4 |
| 117 0 0 | 499 8 0 | 7,193 8 0 | ..... | 6,103 8 0 | 543 0 0 | 547 0 0 | 7,193 8 0 | 20,424 | 0 5 8 |
| 38 0 0 | 210 0 0 | 4,796 8 0 | ..... | 4,656 8 0 | 140 0 0 | ..... | 4,796 8 0 | 22,326 | 0 3 5 |
| 3,289 6 0 | 3,893 4 0 | 45,160 12 0 | 15,925 5 0 | 23,230 3 0 | 5,094 4 0 | 911 0 0 | 45,160 12 0 | 110,708 | 0 6 8 |
| 2,752 1 4 | 963 11 3 | 18,086 10 1 | 18,086 10 1 | ..... | ..... | ..... | 18,086 10 1 | ... | ..... |
| 57 14 3 | 1,039 3 9 | 6,849 0 0 | ..... | 5,783 15 0 | 1,095 1 0 | ..... | 6,849 0 0 | 20,591 | 0 5 4 |
| 47 7 9 | 2,579 12 3 | 9,811 9 2 | ..... | 6,901 15 6 | 2,559 0 11 | 350 8 9 | 9,811 9 2 | 28,463 | 0 5 6 |
| 39 0 0 | 375 6 6 | 4,460 9 7 | ..... | 4,150 2 7 | 310 7 0 | ..... | 4,460 9 7 | 22,038 | 0 3 3 |
| 29 14 0 | 660 2 6 | 5,936 7 6 | ..... | 5,798 7 0 | 138 0 6 | ..... | 5,936 7 6 | 14,363 | 0 6 7 |
| ..... | 365 4 5 | 5,507 2 7 | ..... | ..... | ..... | 5,507 2 7 | 5,507 2 7 | 15,407 | 0 5 9 |
| 800 4 3 | 765 15 2 | 9,561 14 1 | ..... | ..... | ..... | 9,561 14 1 | 9,561 14 1 | 14,547 | 0 10 6 |
| 3,726 9 7 | 6,749 7 10 | 60,213 5 0 | 18,086 10 1 | 22,604 8 1 | 4,102 9 5 | 15,419 9 5 | 60,213 5 0 | 115,409 | 0 8 4 |
| 2,886 12 9 | 930 2 10 | 13,139 8 11 | 13,139 8 11 | ..... | ..... | ..... | 13,139 8 11 | ... | ..... |
| 59 11 11 | 381 2 6 | 4,892 11 11 | ..... | 2,764 8 5 | 910 10 0 | 1,217 9 6 | 4,892 11 11 | 14,839 | 0 5 3 |
| 218 12 2 | 184 5 3 | 2,366 1 4 | ..... | 1,858 6 10 | 507 10 6 | ..... | 2,366 1 4 | 5,719 | 0 6 7 |
| 73 12 5 | 355 8 7 | 3,781 15 7 | ..... | 3,055 12 0 | 726 3 7 | ..... | 3,781 15 7 | 11,237 | 0 5 5 |
| 149 2 11 | 190 4 5 | 2,240 10 0 | ..... | 1,989 12 0 | 250 14 0 | ..... | 2,240 10 0 | 4,043 | 0 8 10 |
| 284 14 5 | 403 12 0 | 5,364 0 3 | ..... | 3,858 2 5 | 1,505 13 10 | ..... | 5,364 0 3 | 12,553 | 0 6 10 |
| 120 0 0 | 88 1 3 | 2,079 6 5 | ..... | ..... | ..... | 2,079 6 5 | 2,079 6 5 | 2,422 | 0 13 9 |
| ..... | 211 10 3 | 4,449 6 3 | ..... | ..... | ..... | 4,449 6 3 | 4,449 6 3 | 7,133 | 0 10 0 |
| 3,793 2 7 | 2,744 15 1 | 38,313 12 8 | 13,139 8 11 | 13,526 9 8 | 3,901 3 11 | 7,746 6 2 | 38,313 12 8 | 57,946 | 0 10 7 |
| 4,653 12 11 | 670 13 10 | 24,847 5 2 | 22,747 5 2 | ..... | 2,100 0 0 | ..... | 24,847 5 2 | ... | ..... |
| 1,048 0 6 | 1,981 10 0 | 8,681 3 1 | ..... | 5,042 3 9 | 3,638 15 4 | ..... | 8,681 3 1 | 17,241 | 0 8 1 |
| 815 3 0 | 353 8 11 | 5,579 7 6 | ..... | 5,094 11 1 | 484 12 5 | ..... | 5,579 7 6 | 19,868 | 0 4 6 |
| 461 8 11 | 235 9 4 | 2,704 10 7 | ..... | 2,704 10 7 | ..... | ..... | 2,704 10 7 | 6,415 | 0 6 9 |
| 1,045 5 2 | 479 1 6 | 8,027 0 9 | ..... | 6,508 13 6 | 1,518 3 3 | ..... | 8,027 0 9 | 28,882 | 0 4 5 |
| 302 6 1 | 110 1 11 | 1,650 4 10 | ..... | 1,650 4 10 | ..... | ..... | 1,650 4 10 | 6,391 | 0 4 2 |
| 117 0 6 | 46 3 4 | 2,109 10 11 | ..... | ..... | ..... | 2,109 10 11 | 2,109 10 11 | 5,888 | 0 5 9 |
| 8,443 5 3 | 3,877 0 10 | 53,599 10 10 | 22,747 5 2 | 21,000 11 9 | 7,741 15 0 | 2,109 10 11 | 53,599 10 10 | 84,685 | 0 10 2 |
| ..... | 55 13 2 | 1,007 1 5 | ..... | ..... | 1,007 1 5 | ..... | 1,007 1 5 | 1,943 | 0 8 4 |
| 4,805 7 8 | 27,730 2 2 | 2,70,740 11 9 | 99,205 7 0 | 1,05,324 1 4 | 38,934 12 5 | 27,276 7 0 | 2,70,740 11 9 | 461,799 | 0 9 4 |

# B—DISPENSARY VACCINATION.

Statement No. III, showing Dispensary Vaccination in the Bombay Presidency during the year 1901-1902.

| Districts. | Number of Dispensaries in each District to which a Vaccinator is attached. | Average number of Vaccinators attached to Dispensaries during the season. | Total number of persons vaccinated. | | | Average number of persons vaccinated by each Vaccinator. | Primary Vaccination. | | | | Re-vaccination. | | Percentage of successful Cases. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Total. | Successful. | | | Total. | Successful. | Primary. | Re-vaccination. |
| | | | | | | | | Under one year. | 1 and under 6. | Total of all Ages. | | | | |
| 1 | 2 | 3 | 4 | | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| | | | Males. | Females. | Total. | | | | | | | | | |
| Bombay City. — THE PRESIDENCY CIRCLE. — Local Medical Practitioner. | ... | ... | P ... 1 | 1 | 1 | 1 | 1 | 1 | ... | 1 | ... | ... | 100·00 | ... |
| | | | R ... ... | ... | | | | | | | | | | |
| Mahi Kántha Agency. — THE GUJARÁT REGISTRATION DISTRICT. — Ahmedabad Central Prison | ... | ... | P 310 | 17 | 327 | 1,739 | 327 | ... | ... | 236 | 1,412 | 805 | 72·17 | 57·01 |
| | | | R 1,357 | 55 | 1,412 | | | | | | | | | |
| Ahmedabad Collectorate. — Sádra | ... | ... | P 50 | 42 | 92 | 116 | 92 | 71 | 21 | 92 | 24 | 24 | 100·00 | 100·00 |
| | | | R 24 | ... | 24 | | | | | | | | | |
| TOTAL | ... | ... | P 360 | 59 | 419 | 1,855 | 419 | 71 | 21 | 328 | 1,436 | 829 | 78·28 | 57·73 |
| | | | R 1,381 | 55 | 1,436 | | | | | | | | | |
| BUSHIRE | ... | ... | P 430 | 368 | 798 | 798 | 798 | 259 | 392 | 702 | ... | ... | 87·97 | ... |
| | | | R ... | ... | ... | | | | | | | | | |
| MUSKAT | ... | ... | P 40 | 35 | 75 | 75 | 75 | 24 | 13 | 38 | ... | ... | 50·67 | ... |
| | | | R ... | ... | ... | | | | | | | | | |
| TOTAL FOR THE — BRITISH TERRITORY | ... | ... | P 780 | 421 | 1,201 | 2,613 | 1,201 | 284 | 405 | 977 | 1,412 | 805 | 81·35 | 57·01 |
| | | | R 1,357 | 55 | 1,412 | | | | | | | | | |
| TOTAL FOR THE — NATIVE STATES | ... | ... | P 50 | 42 | 92 | 116 | 92 | 71 | 21 | 92 | 24 | 24 | 100·00 | 100·00 |
| | | | R 24 | ... | 24 | | | | | | | | | |
| GRAND TOTAL FOR THE BOMBAY PRESIDENCY | ... | ... | P 830 | 463 | 1,293 | 2,729 | 1,293 | 355 | 426 | 1,069 | 1,436 | 829 | 82·68 | 57·03 |
| | | | R 1,381 | 55 | 1,436 | | | | | | | | | |

## Comparative Statement No. IV, showing the Number of Persons primarily vaccinated and the Number of those Persons who were successfully vaccinated in each of the undermentioned official years.

| Establishment. | Persons Primarily Vaccinated. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. |
| | Years ending 31st March. | | | | | | | | | |
| | 1892.* | | 1893. | | 1894. | | 1895.† | | 1896. | |
| Government ... ... ... ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Municipal ... ... ... ... | 72,637 | 69,258 | 72,842 | 69,076 | 68,511 | 63,970 | 68,823 | 64,130 | 72,305 | 65,980 |
| Local Fund ... ... ... .. | 528,112 | 497,894 | 517,682 | 486,177 | 517,195 | 484,219 | 524,306 | 488,575 | 534,077 | 497,062 |
| Cantonment ... ... ... ... | 1,904 | 1,830 | 2,967 | 2,773 | 2,067 | 1,959 | 2,114 | 2,038 | 2,484 | 2,370 |
| Native States .. ... ... ... | 219,707 | 211,817 | 323,345 | 309,676 | 310,367 | 296,012 | 113,114 | 107,728 | 119,069 | 113,407 |
| Dispensary ... ... ... ... | 4,033 | 3,611 | 3,306 | 2,976 | 3,233 | 2,637 | 1,313 | 1,121 | 938 | 876 |
| Army. European ... ... ... ... | 392 | 305 | 430 | 295 | 149 | 67 | 171 | 111 | 214 | 144 |
| Army. Native ... ... ... ... | 4,088 | 3,636 | 3,593 | 2,946 | 4,348 | 3,842 | 2,515 | 2,180 | 3,561 | 3,205 |
| Total ... | 830,873 | 788,351 | 924,165 | 873,919 | 905,870 | 852,706 | 712,356 | 665,883 | 732,648 | 683,044 |

| Establishment. | Persons Primarily Vaccinated—*continued.* | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. |
| | Years ending 31st March—*continued.* | | | | | | | | | | | |
| | 1897. | | 1898. | | 1899. | | 1900. | | 1901.† | | 1902. | |
| Government ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Municipal ... | 65,560 | 58,350 | 59,877 | 53,875 | 62,618 | 55,841 | 68,942 | 60,652 | 62,736 | 55,465 | 54,156 | 48,672 |
| Local Fund .. | 544,558 | 502,035 | 500,170 | 456,796 | 457,190 | 423,905 | 504,793 | 467,664 | 440,608 | 398,978 | 362,192 | 333,390 |
| Cantonment ... | 2,240 | 1,957 | 1,434 | 1,211 | 1,970 | 1,671 | 2,164 | 1,917 | 1,920 | 1,628 | 1,594 | 1,460 |
| Native States ... | 119,171 | 113,336 | 114,420 | 109,263 | 98,547 | 94,630 | 102,210 | 98,303 | 80,408 | 76,107 | 51,282 | 48,864 |
| Dispensary ... | 1,340 | 1,148 | 2,313 | 2,220 | 985 | 953 | 1,353 | 1,208 | 806 | 667 | 1,293 | 1,069 |
| Army. European. ... | 129 | 97 | 241 | 187 | 159 | 99 | ... | ... | ... | ... | ... | ... |
| Army. Native ... | 3,513 | 3,116 | 3,384 | 2,618 | 2,327 | 2,045 | ... | ... | ... | ... | ... | ... |
| Total ... | 736,511 | 680,033 | 681,839 | 626,170 | 623,796 | 579,144 | 679,46 7 | 629,744 | 586,478 | 532,845 | 470,517 | 433,455 |

Note.—Revaccinations are wholly excluded from this statement.

* From 1892, the vaccination work of Government Vaccinators is included in Káthiáwár State.

† From 1895, the figures of the Native States of Baroda, Cutch, Káthiáwár, Pálanpur, I'dar and Cambay and from 1901 the figures Bhor, Phaltan and Sávantvádi being shown separately in Appendix II, are excluded from this statement.

Statement No. V, showing particulars of Vaccination verified by Inspecting Officers in 1901-1902.

| Districts. | | Total Number of persons vaccinated. | Total Number inspected. | | Percentage of Inspections to Total Number vaccinated. | | Percentage of Cases found successful of Total Number inspected. | | Percentage of success reported by Vaccinators.* |
|---|---|---|---|---|---|---|---|---|---|
| | | | By Deputy Sanitary Commissioners. | By Inspectors and Superintendents. | By Deputy Sanitary Commissioners. | By Inspectors and Superintendents. | By Deputy Sanitary Commissioners. | By Inspectors and Superintendents. | |
| Western Registration District. | Khándesh† ... ... | 34,064 | 1,213 | 17,943 | 3·56 | 52·67 | 92·67 | 94·84 | 87·60 |
| | Násik† ... ... | 19,246 | 682 | 11,687 | 3·54 | 60·72 | 94·66 | 12·00 | 84·80 |
| | Thána† ... ... | 16,946 | 1,502 | 9,151 | 8·86 | 54·00 | 94·54 | 97·14 | 87·55 |
| | Kolába† ... ... | 13,843 | 2,012 | 6,421 | 14·53 | 46·38 | 97·09 | 97·20 | 94·98 |
| Presidency Circle ... | Bombay City ... | P. 14,525<br>R. 2,279 | 4,828<br>101 | 5,644<br>23 | 33·24<br>4·43 | 38·86<br>1·01 | 100·00<br>73·27 | 99·86<br>69·56 | 90·60<br>14·22 |
| Central Registration District. | Ahmednagar† ... | 24,625 | ... | 7,374 | ... | 29·95 | ... | 99·39 | 89·69 |
| | Poona† ... ... | 26,233 | 1,443 | 6,773 | 5·50 | 25·82 | 99·72 | 99·16 | 92·83 |
| | Sholápur† ... ... | 21,653 | ... | 7,742 | ... | 35·75 | ... | 98·71 | 91·14 |
| | Sátára† ... ... | 21,240 | 2,158 | 9,332 | 10·16 | 43·94 | 99·49 | 99·72 | 91·03 |
| | Ratnágiri† ... ... | 23,672 | 1,323 | 12,031 | 5·59 | 50·82 | 99·55 | 98·13 | 94·31 |
| Southern Registration District. | Belgaum ... ... | P. 21,283<br>R. 2,638 | 1,127<br>8 | 3,200<br>34 | 5·29<br>·30 | 15·03<br>1·29 | 98·85<br>100·00 | 98·78<br>67·64 | 89·25<br>60·46 |
| | Dhárwár ... ... | P. 28,321<br>R. 2,831 | 345<br>... | 16,795<br>74 | 1·22<br>... | 59·30<br>2·61 | 100·00<br>... | 98·80<br>74·32 | 92·76<br>55·81 |
| | Bijápur ... ... | P. 20,710<br>R. 4,127 | 110<br>... | 4,165<br>20 | ·53<br>... | 20·11<br>·48 | 100·00<br>... | 99·14<br>65·00 | 93·15<br>66·54 |
| | Kánara ... ... | P. 18,523<br>R. 3,075 | 59<br>... | 6,307<br>82 | ·44<br>... | 46·64<br>2·67 | 98·31<br>... | 98·24<br>42·68 | 90·16<br>70·57 |
| Gujarát Registration District. | Surat ... ... | P. 12,361<br>R. 699 | 1,048<br>39 | 5,130<br>246 | 8·48<br>5·58 | 41·50<br>35·19 | 99·33<br>74·36 | 99·08<br>89·84 | 97·04<br>74·39 |
| | Broach ... ... | P. 5,497<br>R. 661 | ...<br>... | 2,765<br>139 | ...<br>... | 50·30<br>21·03 | ...<br>... | 99·53<br>82·73 | 97·05<br>58·09 |
| | Kaira... ... ... | P. 11,361<br>R. 458 | 364<br>4 | 6,042<br>164 | 3·20<br>·87 | 53·18<br>35·81 | 100·00<br>100·00 | 99·06<br>67·32 | 97·17<br>43·23 |
| | Panch Mahás ... | P. 4,110<br>R. 210 | 201<br>7 | 718<br>... | 4·89<br>3·33 | 17·47<br>... | 98·51<br>100·00 | 96·66<br>... | 94·74<br>70·95 |
| | Ahmedabad ... ... | P. 13,068<br>R. 742 | 583<br>4 | 4,234<br>56 | 4·46<br>·54 | 32·40<br>7·55 | 99·14<br>100·00 | 99·31<br>82 14 | 93·36<br>47·57 |
| Sind Registration District. | Karáchi ... ... | P. 17,561<br>R. 2,844 | 1,196<br>162 | 3,949<br>1,044 | 6·81<br>5·70 | 22·49<br>36·71 | 99·83<br>93·83 | 98·78<br>83·91 | 88·50<br>59·74 |
| | Hyderabad ... ... | R. 20,356<br>P. 1,553 | 1,060<br>35 | 10,425<br>697 | 5·21<br>2·25 | 51 22<br>44·88 | 98·77<br>62·86 | 99·31<br>89·06 | 92·51<br>66·77 |
| | Thar and Parkar ... | P. 6,403<br>R. 1,080 | 893<br>203 | 3,313<br>562 | 13·95<br>18·80 | 51·74<br>52·04 | 99·66<br>98·52 | 99·06<br>86·65 | 88·68<br>68·24 |
| | Shikárpur ... ... | P. 29,396<br>R. 4,389 | 251<br>14 | 12,611<br>1,041 | ·85<br>·32 | 42·90<br>23·72 | 1·00<br>78·57 | 99·30<br>64·26 | 90·38<br>52·70 |
| | Upper Sind Frontier. | P. 6,459<br>R. 1,127 | 91<br>... | 1,832<br>360 | 1 41<br>... | 28·36<br>31·94 | 1·00<br>... | 98·25<br>77·22 | 88·61<br>59·27 |
| | Grand Total ... | 455,169 | 23,066 | 180,126 | 5·07 | 39·57 | 98·29 | 97·68 | 89·01 |

* Percentage of success in this column is calculated on the total number reported by Vaccinator as vaccinated.

† Information regarding Primary and Re-vaccination not available will be given in future reports.

*N.B.*—Native States are excluded from this statement.

# APPENDIX II.

## *Native States.*

Statement No. I, showing Particulars of Vaccination in the Bombay Presidency during the year 1901-1902.

| Number. | Circles and Districts. | Population of Districts according to Census of 1901. | Average Population per Square Mile. | Average Number of Vaccinators employed throughout the season. | Total Number of Persons vaccinated. | | | Average Number of Persons vaccinated by each Vaccinator. | Primary Vaccinations. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Total. | Successful. | | |
| | | | | | Males. | Females. | Total. | | | Under 1 year. | Over 1 and under 6 years. | Total of all ages. |
| 1 | 2 | 3 | 4 | 5 | 6 | | | 7 | 8 | 9 | 10 | 11 |
| 1 | Baroda ... ... ... | 1,952,692 | 235 | 36 | P. 16,780<br>R. 2,095 | 15,034<br>620 | 31,814<br>2,715 | 987 | 31,976 | 25,671 | 3,623 | 29,467 |
| 2 | Cutch ... ... ... | 488,022 | 75 | 17 | P. 6,602<br>R. 5 | 6,094<br>1 | 12,696<br>6 | 747 | 12,759 | 8,863 | 3,459 | 12,475 |
| 3 | Káthiáwár ... ... | 2,334,320 | ... | 52 | P. 18,039<br>R. 1,478 | 17,220<br>774 | 35,259<br>2,252 | 721 | 35,573 | 21,614 | 11,219 | 33,480 |
| 4 | Pálanpur ... ... .. | 456,224 | ... | 12 | P. 4,753<br>R. 29 | 3,996<br>22 | 8,749<br>51 | 733 | 8,751 | 5,421 | 2,419 | 7,976 |
| 5 | I'dar ... ... ... | 161,505 | ... | 4 | P. 975<br>R. 107 | 876<br>26 | 1,851<br>133 | 491 | 1,851 | 1,102 | 616 | 1,776 |
| 6 | Cambay ... ... ... | 75,225 | 215 | 2 | P. 437<br>R. 2 | 389<br>1 | 826<br>3 | 414 | 826 | 659 | 144 | 804 |
| 7 | Bhor (Pant Sachiv) ... | 137,268 | 92 | 3 | P. 1,678<br>R. 1 | 1,593<br>... | 3,271<br>1 | 1,091 | 3,271 | 2,544 | 668 | 3,225 |
| 8 | Phaltan ... ... ... | 45,739 | 115 | 1 | P. 649<br>R. 3 | 582<br>2 | 1,231<br>5 | 1,236 | 1,231 | 1,001 | 180 | 1,183 |
| 9 | Sávantvádi ... ... | 217,732 | 221 | 5 | P. 2,386<br>R. 159 | 2,402<br>58 | 4,788<br>217 | 1,001 | 4,807 | 3,666 | 878 | 4,615 |
| | Total ... | 5,868,727 | ... | 132 | P. 52,299<br>R. 3,879 | 48,186<br>1,504 | 100,485<br>5,383 | 802 | 101,045 | 70,541 | 23,206 | 95,001 |

| Number. | Circles and Districts. | Re-vaccination. | | Percentage of successful Cases. | | Persons successfully vaccinated per 1,000 of Population. | Average Annual Number of Persons successfully vaccinated during previous five years. | | Average Annual Number of Deaths from Small-pox during previous five years. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Total. | Successful. | Primary. | Re-vaccination. | | Number. | Ratio per 1,000. | Number. | Ratio per 1,000. |
| 1 | 2 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 1 | Baroda ... ... .. | 2,715 | 1,701 | 92·62 | 62·65 | 15·96 | 65,814 | 33·70 | ..... | ..... |
| 2 | Cutch ... ... .. | 6 | 5 | 98·26 | 83·33 | 25·56 | 16,572 | 33·96 | ..... | ..... |
| 3 | Káthiáwár... ... ... | 2,252 | 1,794 | 94·95 | 79·66 | 15·11 | 69,707 | 29·86 | ..... | ..... |
| 4 | Pálanpur ... ... ... | 51 | 43 | 91·17 | 84·31 | 17·58 | ... | ... | ..... | ..... |
| 5 | I'dar ... ... ... | 133 | 114 | 95·94 | 85·71 | 11·70 | 6,784 | 42·00 | ..... | ..... |
| 6 | Cambay ... ... ... | 3 | 2 | 97·34 | 66·66 | 17·14 | 2,137 | 28·41 | ..... | ..... |
| 7 | Bhor (Pant Sachiv) ... | 1 | 1 | 98·59 | 100·00 | 23·50 | 3,353 | 24·42 | ..... | ..... |
| 8 | Phaltan ... ... ... | 5 | 3 | 96·10 | 60·00 | 25·93 | 1,862 | 40·72 | ..... | ..... |
| 9 | Sávantvádi ... ... | 217 | 94 | 96·39 | 43·32 | 21·63 | 5,916 | 27·17 | ..... | ..... |
| | Total ... | 5,383 | 3,757 | 94·54 | 69·79 | 16·83 | 192,145 | 32·74 | ..... | ..... |

## A—VACCINE DEPARTMENT.

Statement No. II, showing the Cost of the Department in the Bombay Presidency during the year 1901-1902.

| Number. | Circles and Districts. | Expenditure. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | European Supervising Officers. | Pay. | Inspectors of Sanitation and Vaccination. | Pay. | Vaccinators. | Pay. | Clerks. | Pay. | Peons, &c. | Pay. | Total Pay of Establishment. |
| | | | Rs. a. p. | | Rs. a. p. | | Rs. a. p. | | Rs. a. p. | | Rs. a. p. | Rs. a. p. |
| 1 | Baroda ... | ... | ..... | 4 | 2,448 0 0 | 36 | 7,475 11 10 | 8 | 625 10 0 | 43 | 3,053 15 2 | 13,603 5 0 |
| 2 | Cutch ... | 1 | 1,200 0 0 | 2 | 941 15 3 | 17 | 1,026 1 2 | ... | ..... | 19 | 1,343 9 0 | 4,511 9 5 |
| 3 | Káthiáwár . | 3 | 1,200 0 0 | 6 | 5,100 0 0 | 52 | 12,581 13 6 | 5 | 1,371 0 0 | 68 | 5,839 13 6 | 26,092 11 0 |
| 4 | Pálanpur ... | ... | ..... | 1 | ..... | 13 | 2,646 5 4 | 4 | 286 10 1 | 13 | 948 12 0 | 3,881 11 5 |
| 5 | I'dar ... | 1 | ..... | 1 | 345 5 2 | 4 | 847 0 0 | ... | ..... | 5 | 369 0 0 | 1,561 5 2 |
| 6 | Cambay ... | ... | ..... | 2 | 2,328 0 0 | 2 | 306 0 0 | ... | ..... | 2 | 120 0 0 | 2,754 0 0 |
| 7 | Bhor ... | ... | ..... | 1 | 300 0 0 | 3 | 516 0 0 | ... | ..... | 4 | 256 0 0 | 1,072 0 0 |
| 8 | Phaltan ... | ... | ..... | ... | 160 0 0 | 1 | 180 0 0 | ... | ..... | 1 | 68 0 0 | 408 0 0 |
| 9 | Sávantvádi | ... | ..... | 1 | 468 14 5 | 5 | 827 1 7 | ... | ..... | 6 | 378 0 0 | 1,674 0 0 |
| | Total ... | 5 | 2,400 0 0 | 18 | 12,092 2 10 | 133 | 26,406 1 5 | 17 | 2,283 4 1 | 161 | 12,377 1 8 | 55,558 10 0 |

| Number. | Circles and Districts. | Expenditure—*contd.* | | | Paid from | | | | | Total. | Number of all successful Vaccinations and re-vaccinations. | Average cost of each successful case. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Travelling Allowances. | Contingencies. | Total Cost. | Imperial Funds. | Provincial Funds. | Local Funds. | Municipalities. | Native States. | | | |
| | | Rs. a. p. | Rs. a. p. | Rs. a. p. | | Rs. a. p. | | | Rs. a. p. | Rs. a. p. | | Rs. a. p. |
| 1 | Baroda ... | 120 15 4 | 1,041 1 6 | 14,765 5 10 | ... | ..... | ... | ... | 14,765 5 10 | 14,765 5 10 | 31,168 | 0 7 7 |
| 2 | Cutch ... | 3,790 8 1 | ..... | 8,302 1 6 | ... | ..... | ... | ... | 8,302 1 6 | 8,302 1 6 | 12,480 | 0 10 7 |
| 3 | Káthiáwár ... | 2,921 4 3 | 4,765 1 3 | 33,779 0 6 | ... | 4,529 7 0 | ... | ... | 29,249 9 6 | 33,779 0 6 | 35,274 | 0 15 3 |
| 4 | Pálanpur ... | 157 5 0 | 184 1 10 | 4,223 2 3 | ... | ..... | ... | ... | 4,223 2 3 | 4,223 2 3 | 8,118 | 0 9 2 |
| 5 | I'dar ... | 141 13 6 | 65 15 3 | 1,769 1 11 | ... | ..... | ... | ... | 1,769 1 11 | 1,769 1 11 | 1,890 | 0 14 11 |
| 6 | Cambay ... | ..... | 15 3 0 | 2,769 3 0 | ... | ..... | ... | ... | 2,769 3 0 | 2,769 3 0 | 806 | 3 6 11 |
| 7 | Bhor ... | ..... | 88 0 0 | 1,160 0 0 | ... | ..... | ... | ... | 1,160 0 0 | 1,160 0 0 | 3,226 | 0 5 9 |
| 8 | Phaltan ... | 10 0 0 | 38 0 0 | 456 0 0 | ... | ..... | ... | ... | 456 0 0 | 456 0 0 | 1,186 | 0 6 2 |
| 9 | Sávantvádi ... | ..... | 49 2 3 | 1,723 2 3 | ... | ..... | ... | ... | 1,723 2 3 | 1,723 2 3 | 4,709 | 0 5 10 |
| | Total ... | 7,141 14 2 | 6,246 9 1 | 68,947 1 3 | ... | 4,529 7 0 | ... | ... | 64,417 10 3 | 68,947 1 3 | 98,857 | 0 11 2 |

Comparative Statement No. IV, showing the Number of Persons primarily vaccinated and the Number of those Persons who were successfully vaccinated in each of the undermentioned official years.

| Native States. | Persons Primarily Vaccinated. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. |
| | Years ending 31st March. | | | | | | | | | | | |
| | 1892. | | 1893. | | 1894. | | 1895. | | 1896. | | 1897. | |
| Baroda ... .. | 70,389 | 68,163 | 72,557 | 69,874 | 66,504 | 64,028 | 65,589 | 62,851 | 69,236 | 65,705 | 70,602 | 66,624 |
| Cutch ... ... | 21,593 | 20,503 | 18,428 | 17,567 | 19,832 | 18,589 | 19,738 | 18,904 | 20,016 | 19,105 | 16,581 | 15,846 |
| Káthiáwár ... | 82,783 | ... | 86,024 | 81,194 | 86,444 | 82,027 | 91,782 | 87,205 | 92,808 | 89,175 | 92,505 | 88,000 |
| Pálanpur ... | 21,443 | ... | 18,124 | 17,609 | 16,184 | 15,065 | 19,893 | 18,950 | 22,843 | 21,691 | 22,495 | 20,644 |
| I'dar ... .. | 7,145 | 7,055 | 6,821 | 6,709 | 6,652 | 6,567 | 5,566 | 5,431 | *7,204 | *6,959 | 9,269 | 8,518 |
| Cambay ... ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Bhor ... .. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Phaltan ... ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | .. |
| Sávantvádi ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Total ... | 203,353 | 95,721 | 201,954 | 192,953 | 195,616 | 186,276 | 202,568 | 193,341 | 212,107 | 202,635 | 211,452 | 199,632 |

| Native States. | Persons Primarily Vaccinated—*continued.* | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. | Total Number. | Number successfully vaccinated. |
| | Years ending 31st March—*continued.* | | | | | | | | | |
| | 1898. | | 1899. | | 1900. | | 1901. | | 1902. | |
| Baroda ... ... ... ... ... | 72,273 | 68,047 | 76,577 | 72,406 | 74,868 | 70,653 | 44,584 | 40,763 | 31,814 | 29,467 |
| Cutch ... ... ... ... ... | 17,836 | 17,223 | 20,971 | 20,206 | 17,006 | 16,527 | 13,306 | 12,981 | 12,696 | 12,475 |
| Káthiáwár ... ... ... ... | 83,489 | 79,478 | 84,418 | 81,013 | 83,148 | 80,275 | 48,324 | 45,814 | 35,259 | 33,480 |
| Pálanpur ... ... ... ... | 18,926 | 17,923 | Not | received. | | | 11,693 | 10,380 | 8,749 | 7,976 |
| I'dar ... ... ... ... ... | 9,793 | 9,328 | 8,596 | 8,370 | 7,891 | 7,663 | 3,258 | 2,982 | 1,851 | 1,776 |
| Cambay ... ... ... ... | ... | ... | 2,333 | 2,323 | 2,249 | 2,188 | 1,164 | 1,134 | 826 | 804 |
| Bhor ... ... ... ... ... | ... | ... | ... | ... | ... | ... | 3,555 | 3,410 | 3,271 | 3,225 |
| Phaltan ... ... ... ... | ... | ... | ... | ... | ... | ... | 1,679 | 1,597 | 1,231 | 1,183 |
| Sávantvádi ... ... ... ... | ... | ... | ... | ... | ... | ... | 6,157 | 5,961 | 4,788 | 4,615 |
| Total ... | 202,317 | 191,999 | 192,895 | 184,318 | 185,162 | 177,306 | 133,720 | 125,022 | 100,485 | 95,001 |

*N.B.*—This statement is given in Appendix II in accordance with Government Resolution in the General Department, No. 5091 of 23rd November 1895.

*Last year re-vaccinations were added to these figures through mistake by the I'dar State.

# APPENDIX III.

Statement showing Statistics relating to the number of children under one year of age in Towns available for vaccination and the number of successful operations performed on them.

| No. | Towns. | Number of Births during the year 1900. | Number of Deaths amongst children under one year during the year 1900. | Number available for vaccination after deducting the numbers who have died as shown in Column 3. | Number of successful vaccinations on children under one year during the year ending March 1902. | Date of extension of Vaccination Act to Town. |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | Dhulia ... ... | 713 | 115 | 598 | 211 | None. |
| 2 | Nandurbár ... | 363 | 51 | 312 | 117 | " |
| 3 | Chopda ... ... | 536 | 97 | 439 | 230 | " |
| 4 | Nasirabad ... | 267 | 38 | 229 | 276 | " |
| 5 | Násik ... ... | 454 | 159 | 295 | 337 | " |
| 6 | Yeola ... ... | 337 | 90 | 247 | 257 | " |
| 7 | Thána ... ... | 393 | 125 | 268 | 202 | " |
| 8 | Kalyán ... ... | 209 | 34 | 175 | 97 | " |
| 9 | Alibág ... ... | 110 | 20 | 90 | 35 | " |
| 10 | Mahád ... ... | 194 | 21 | 173 | 73 | " |
| 11 | Panvel ... ... | 145 | 18 | 127 | 66 | " |
| 12 | Bombay City ... | 13,520 | 7,768 | 5,752 | 10,211 | September 1877. |
| 13 | Ahmednagar ... | 963 | 505 | 458 | 889 | None. |
| 14 | Ahmednagar Cantonment. | 61 | 13 | 48 | 59 | " |
| 15 | Bhingár... ... | 174 | 34 | 140 | 130 | " |
| 16 | Vámbori ... | 237 | 32 | 205 | 132 | " |
| 17 | Sangamner ... | 312 | 88 | 224 | 210 | " |
| 18 | Kharda ... ... | 149 | 16 | 133 | 66 | " |
| 19 | Poona City ... | 1,021 | 1,020 | 1 | 1,427 | " |
| 20 | Poona Cantonment ... | 356 | 168 | 188 | 752 | " |
| 21 | Kirkee do. ... | 280 | 60 | 220 | 187 | " |
| 22 | Sásvad ... ... | 214 | 36 | 178 | 154 | " |
| 23 | Jejuri ... ... | 43 | 5 | 38 | 38 | " |
| 24 | Bárámati ... | 281 | 40 | 241 | 110 | " |
| 25 | Indápur ... ... | 137 | 15 | 122 | 128 | " |
| 26 | Sirur ... ... | 96 | 26 | 70 | 116 | " |
| 27 | Khed ... ... | 94 | 13 | 81 | 94 | " |
| 28 | Lonávli ... | 132 | 33 | 99 | 93 | " |
| 29 | Talegaon Dábháda ... | 67 | 7 | 60 | 74 | " |
| 30 | A'landi ... ... | 51 | 17 | 34 | 21 | " |
| 31 | Junnar ... ... | 335 | 39 | 296 | 120 | " |
| 32 | Poona Suburban ... | 157 | 48 | 109 | 160 | " |
| 33 | Sholápur ... | 1,579 | 463 | 1,116 | 859 | " |
| 34 | Bársi ... ... | 802 | 145 | 657 | 481 | " |
| 35 | Karmála ... | 266 | 44 | 222 | 184 | " |
| 36 | Sángola ... ... | 173 | 25 | 148 | 109 | " |
| 37 | Pandharpur ... | 673 | 210 | 463 | 417 | " |
| 38 | Sátára Town ... | 441 | 129 | 312 | 258 | " |
| 39 | Wái ... ... | 304 | 106 | 198 | 126 | " |
| 40 | Rahimatpur ... | 167 | 42 | 125 | 26 | " |
| 41 | Karád ... ... | 163 | 36 | 127 | 181 | " |
| 42 | Islámpur ... | 252 | 28 | 224 | 41 | " |
| 43 | Ashta ... ... | 219 | 34 | 185 | 169 | " |
| 44 | Tásgaon... ... | 195 | 31 | 164 | 91 | " |
| 45 | Vita ... ... | 118 | 19 | 99 | 55 | " |
| 46 | Máyni ... ... | 114 | 19 | 95 | 25 | " |
| 47 | Mhasvad ... | 244 | 38 | 206 | 59 | " |
| 48 | Málcolmpeth ... | 19 | 11 | 8 | 84 | " |
| 49 | Sátára Suburban Municipality. | 64 | 22 | 42 | 45 | " |
| 50 | Vengurla ... ... | 532 | 73 | 459 | 263 | " |
| 51 | Rájápur... ... | 214 | 37 | 177 | 40 | " |

## APPENDIX III—*continued.*

| No. | Towns. | Number of Births during the year 1900. | Number of Deaths amongst children under one year during the year 1900. | Number available for vaccination after deducting the numbers who have died as shown in Column 3. | Number of successful vaccination on children under one year during the year ending March 1901. | Date of extension of Vaccination Act to Town. |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 52 | Ratnágiri ... | 404 | 43 | 361 | 78 | None. |
| 53 | Chiplún ... ... | 311 | 33 | 278 | 143 | ,, |
| 54 | Dápoli ... ... | 47 | 9 | 38 | 12 | ,, |
| 55 | Belgaum ... | 435 | 175 | 260 | 461 | ,, |
| 56 | Nipáni ... ... | 228 | 25 | 203 | 163 | ,, |
| 57 | Yamkanmardi ... | 98 | 17 | 81 | 78 | ,, |
| 58 | Athni ... ... | 342 | 76 | 266 | 255 | ,, |
| 59 | Gokák ... ... | 262 | 43 | 219 | 192 | ,, |
| 60 | Saundatti-Yalláma ... | 242 | 51 | 191 | 213 | ,, |
| 61 | Dhárwár ... | 927 | 251 | 676 | 828 | ,, |
| 62 | Hubli ... ... | 1,489 | 328 | 1,161 | 1,535 | ,, |
| 63 | Gadag Bettigeri ... | 959 | 206 | 753 | 692 | ,, |
| 64 | Navalgund ... | 200 | 52 | 148 | 33 | ,, |
| 65 | Nargund ... | 231 | 37 | 194 | 43 | ,, |
| 66 | Ránebennur ... | 456 | 96 | 360 | 390 | ,, |
| 67 | Byádgi ... ... | 197 | 25 | 172 | 176 | ,, |
| 68 | Háveri ... ... | 167 | 41 | 126 | 225 | ,, |
| 69 | Bijápur ... ... | 699 | 104 | 595 | 590 | ,, |
| 70 | Bágalkot ... | 646 | 110 | 536 | 382 | ,, |
| 71 | Guledgudd ... | 541 | 48 | 493 | 261 | ,, |
| 72 | Ilkal ... ... | 253 | 41 | 212 | 176 | ,, |
| 73 | Kánara ... ... | 367 | 82 | 285 | 218 | ,, |
| 74 | Kumta ... ... | 338 | 71 | 267 | 163 | ,, |
| 75 | Honávar... ... | 180 | 37 | 143 | 153 | ,, |
| 76 | Bhaútál ... ... | 257 | 120 | 137 | 60 | ,, |
| 77 | Sirsi ... ... | 95 | 20 | 75 | 3 | ,, |
| 78 | Gokarn ... ... | 134 | 21 | 113 | ... | ,, |
| 79 | Haliyál ... ... | 195 | 87 | 108 | 84 | ,, |
| 80 | Ulvi ... ... | 7 | 4 | 3 | 1 | ,, |
| 81 | Surat Town ... | 3,215 | 564 | 2,651 | 2,451 | ,, |
| 82 | Bulsár ... ... | 225 | 44 | 181 | 118 | ,, |
| 83 | Broach ... ... | 1,118 | 345 | 773 | 712 | ,, |
| 84 | Jambusar ... | 283 | 66 | 217 | 155 | ,, |
| 85 | Kaira ... ... | 290 | 78 | 212 | 120 | ,, |
| 86 | Nadiád ... ... | 1,050 | 353 | 697 | 439 | ,, |
| 87 | Borsád ... ... | 545 | 145 | 400 | 244 | ,, |
| 88 | Kapadvanj ... | 406 | 163 | 243 | 212 | ,, |
| 89 | Godhra ... ... | 501 | 98 | 403 | 418 | ,, |
| 90 | Dohád ... ... | 301 | 101 | 200 | 150 | ,, |
| 91 | Ahmedabad ... | 3,341 | 1,546 | 1,795 | 3,214 | ,, |
| 92 | Gogha ... ... | 56 | 48 | 8 | 21 | ,, |
| 93 | Viramgám ... | 391 | 130 | 261 | 343 | ,, |
| 94 | Dholka ... ... | 523 | 115 | 408 | 315 | ,, |
| 95 | Karáchi... ... | 4,458 | 1,176 | 3,282 | 2,969 | October 1879. |
| 96 | Tatta ... ... | 225 | 133 | 92 | 181 | ,, |
| 97 | Hyderabad ... | 2,381 | 640 | 1,741 | 411 | ,, |
| 98 | Umarkot ... | 98 | 26 | 72 | *44 | ,, |
| 99 | Shikárpur ... | 1,826 | 640 | 1,186 | 885 | ,, |
| 100 | Sukkur ... ... | 1,137 | 284 | 853 | 528 | ,, |
| 101 | Lárkhána ... | 474 | 180 | 294 | 363 | 1st April 1899. |
| 102 | Rohri ... ... | 442 | 122 | 320 | 240 | ,, |
| 103 | Jacobabad ... | 250 | 87 | 163 | 180 | ,, |

*Annual Reports.*—

Annual Report on Vaccination in the Bombay Presidency for the year 1901-1902.

General Department.
No. 4793

Bombay Castle,
1st September 1902.

Letter from the Sanitary Commissioner for the Government of Bombay, No. B.—2153, dated the 28th July 1902—

Submitting the Annual Report on Vaccination for the year 1901-1902.

Memorandum from the Sanitary Commissioner for the Government of Bombay, No. B.—2154, dated the 28th July 1902.

Memorandum from the Surgeon General with the Government of Bombay, No. S.B.—2584, dated the 1st August 1902.

Government memorandum to the Sanitary Commissioner for the Government of Bombay, No. 4319, dated the 6th August 1902.

Letter from the Sanitary Commissioner for the Government of Bombay, No. B.—2354, dated the 22nd August 1902.

Memorandum from the Surgeon General with the Government of Bombay, No. S.B.—2817, dated the 28th August 1902.

RESOLUTION.—The Report, which does not call for special remarks, should be published.

A. M. T. JACKSON,
Acting Secretary to Government.

To

The Surgeon General with the Government of Bombay,
The Sanitary Commissioner for the Government of Bombay,
The Commissioner in Sind,
The Commissioner, N. D.,
The Commissioner, C. D.,
The Commissioner, S. D.,
All Collectors, including the Collectors and Deputy Commissioners in Sind,
The Accountant General,
The Municipal Commissioner for the City of Bombay,
The Compiler, General Administration Report for 1901-1902,
} With copies of the *Report*.

The Government of India,
The Under Secretary of State for India.
} By letter.

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